

1-1-1959

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WHITWORTH COLLEGE BULLETIN



1959 - 1961

CATALOGUE

69th & 70th years

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WHITWORTH COLLEGE

Catalogue

1959 - 1961

69th - 70th Years

FOREWORD

This catalogue represents a departure from the usual format of the type of early bulletin published by colleges. It is hoped that this new method of presentation will be more interesting and meaningful to its readers.

The material which is presented attempts to describe the most important aspects of the college program in terms of its appeal to a prospective student, his parents, and educational counselors.

Whitworth is one of the fastest growing liberal arts colleges in America. It is important to be aware of this fact in observing its curriculum, its campus, and its physical resources.

The college is sponsored by the Presbyterian Synod of Washington and cooperates fully with the general board of education of the United Presbyterian Church in the U. S. A. Its program is carefully planned to meet the intellectual, spiritual, and physical needs of the young people who come to its campus. It is hoped that this edition will graphically portray the heart of the institution.

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DIRECTORY OF CORRESPONDENCE

Correspondence relating to the following subjects should be addressed to these individuals:

General school policy

General development program, public relations

Educational program of the college

Campus employment, business interests of the college,
student accounts

Scholastic requirements, teacher certification

Living accommodations, student welfare

Admission information

Dr. Frank F. Warren, President

Dr. James Forrester, Vice-President in Development

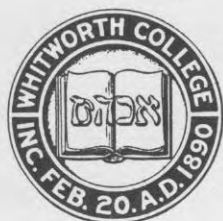
Dr. Alvin B. Quall, Dean

Mr. J. Paul Snyder, Business Manager

Miss Estella E. Baldwin, Registrar

Miss Marion Jenkins, Dean of Women, or
Dr. R. Fenton Duvall, Dean of Men

Mr. Helmuth Bekowies, Director of Admissions



WHITWORTH COLLEGE BULLETIN
VOLUME XXVI

FEBRUARY, 1959
NUMBER 6

Second Class postage paid at Spokane, Washington. Published monthly except June and August.

Admission

Requirements

ADMISSION PROCEDURE

The standards of admission to Whitworth College have been steadily raised in the light of increasing enrollments and a desire to improve the quality of education. Students are, therefore, urged to give careful attention not only to admission requirements but to the filing of an early application. The Director of Admissions' Office is in the process of selecting candidates for admission to the College continuously.

High school students should apply as soon as possible in their senior year. A student may be provisionally admitted early in his senior year pending satisfactory completion of his high school studies. Admission reservations are made only for those students who receive notification of their full acceptance. Dormitory reservations, for those who desire them, are included when one satisfactorily completes the admission requirements.

Information regarding any phase of admissions may be secured at any time by writing to the Office of Admissions, Whitworth College.

FRESHMAN ADMISSION

1. Complete official application form and send to the Director of Admissions.
2. Submit official transcript of high school record together with statement of graduation. (Tentative acceptance can be made after seven semesters of high school work.)

NOTE: All applicants for Freshman standing for the school year 1960-61 and thereafter shall be required to submit scores made on the Scholastic Aptitude Test of the College Entrance Examination Board. Arrangements for the test and for reporting the scores to the College are made by the applicant directly with the CEEB.

3. Complete at least 16 acceptable units of high school study (or 15 units exclusive of activity credit in physical education) with minimum grade point average of 2.0 in academic subjects (C) and recommendations indicating ability to do successful college work.
4. Include in the above 16 units at least 3 units of English and 6 additional units of academic subjects (English, mathematics, foreign language, social science, physical or natural science).
5. Applicants not clearly satisfying the above requirements may (upon recommendations of the Admissions Committee) be permitted to take entrance examinations.

6. Applicants 21 years of age or over who have not graduated from high school, may upon recommendation of the Admissions Committee, be permitted to take entrance examinations which, if completed satisfactorily, will allow probationary admission.

ADVANCED UNDERGRADUATE STUDENTS

1. Complete official application form and send to the Director of Admissions.
2. Submit official transcript record of all college and university work completed or begun, together with a statement of honorable dismissal from the school last attended.
3. Maintain a cumulative grade point average of 2.0 (A=4.0) in all college work as well as the last semester or quarter of study.
4. Evaluation of transferred credits:
 - a. The last year or 28 semester hours of a student's work must be taken in residence at Whitworth College.
 - b. Credits transferred from institutions accredited for less than four years will not be accepted in excess of the accreditation of the individual institution concerned. Example: students transferring from a regular junior college may not transfer more than a total of 60 semester hours plus four hours of physical education activity credit.
 - c. Students who present credits earned in unaccredited schools may request permission to validate by examination such courses as correspond to those offered at Whitworth College. Requests for such validation must be made within the first semester of residence and must be validated during the student's first year of residence. The fee for such validation by examination is \$1.00 per credit hour.

GRADUATE STUDENTS

1. Complete official Graduate Admission Application and send to the Dean of the Graduate School.
2. Submit official transcript record of all study beyond high school including work started or completed with a statement of honorable dismissal from the last school attended. These records will not be returned to the student. (Read carefully the provisions listed under Master's Degree in the index.)

PHYSICAL EXAMINATION

The college requires each entering undergraduate student to file a physical examination form in the college office prior to registration. This form may be secured from the Director of Admissions and is to be filled out by the student and his physician.

Financial Information

All charges made by Whitworth College are due and payable at the beginning of each semester. A student shall be considered fully registered and be permitted to attend classes only after satisfactory financial arrangements have been made with the Business Office of the College.

The College reserves the right to change its charges at any time without previous notice. However, after the beginning of a semester, no changes will be made to be effective within that semester.

All charges quoted are for one semester.

TUITION

Regular tuition, 12-16 semester hours.....	\$290.00
Excess above 16 hours, per hour.....	14.00
Part-time tuition, 9-11 semester hours, per hour....	22.00
Part-time tuition, under 9 semester hours, per hour.....	23.00
Graduate tuition, for graduate students taking 6 hours or less of regular graduate courses, per hour	13.00

ROOM AND BOARD

Warren Hall (Women), Arend Hall (Men).....	\$310.00
Ballard Hall (Women), McMillan Hall (Women), Westminster Hall (Men), Westminster Wing (Men)	285.00
Maranatha Hall (Women), Nason Hall (Men)....	275.00

Room and Board charges do not cover the regular College vacation periods. The payment of room rent does not entitle students to use of room accommodations during these periods, when the buildings may be closed.

GENERAL FEES

<i>Student Association Fees</i>	\$15.00
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The Student Association Fees are charged to all students who register for nine hours or more in any department of the College. The proceeds are used for the support of student publications, student union building, student government, forensics, dramatics, athletics, and A.S.W.C. social functions. The fee also covers free admission to all home athletic contests.

<i>Student Union Building Fee</i>	7.50
<i>Dormitory Breakage Fee</i>	\$10.00

This Fee, or unused portion of it, is refundable at time of student's graduation from the College, or withdrawal, if such withdrawal is made before August 1.

MISCELLANEOUS CHARGES

Application fee (new students only).....	\$10.00
Auditor's fee, per hour.....	2.25
Change of registration (after second week).....	2.00
Duplicate meal ticket.....	.50
Graduation fee (Bachelor's Degree)	12.50
Graduation fee (Master's Degree)	15.00
Guidance Clinic fee for testing.....	5.00
Late registration (after first week).....	2.00
Matriculation fee (included in Application fee)....	5.00
Textbook fee (where textbook is not specified in class).....	1.00
Validation fee, per hour.....	1.00

APPLIED MUSIC FEES

Private Lessons in Art, Music, Speech

One lesson per week, Organ (\$2.95 per lesson).....	\$53.00
One lesson per week, Voice, Instruments, \$2.78 per lesson).....	50.00
Two lessons per week (\$2.46 per lesson).....	88.50

Practice Room Rental

One hour per day (Piano, Voice, Instruments)	5.00
Two hours per day (Piano, Voice, Instruments)	8.50
One hour per day (Organ)	8.00

<i>Instrument Rental</i>	7.50
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EDUCATION FEES

<i>Professional fee</i>	5.00
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Charged to all junior and senior students in the teacher-training program, payable the first semester of each year only.

Cadet teaching fee

6 hours	12.50
8 hours	16.65
12 hours	25.00
14 hours	29.25

<i>Teacher Placement Bureau fee</i>	5.00
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SUMMARY OF COSTS

Following is a summary of costs for a full college year (two semesters):

CHARGE	DORMITORY RESIDENT	OFF-CAMPUS RESIDENT
Tuition	\$580.00	\$580.00
Room and Board	\$550.00 - 620.00	
Student Association Fees	45.00	45.00
Books and Supplies (estimate)	60.00	60.00
	<hr/> \$1285.00 - 1305.00	<hr/> \$685.00

The above summary does not include personal and incidental expenses, which will vary according to the personal tastes and spending habits of the student.

EXTENSION OF FINANCIAL CREDIT

For the convenience of those students wishing to pay their college costs over a longer period rather than in full at registration time, the College offers such a service through Tuition Plan, Inc. Tuition, Room and Board, and Fees may be included in the contract plan. A descriptive folder on the Tuition Plan may be had by writing the Admissions Office of the College.

Transcripts of record and diplomas of graduation will not be issued until all accounts are fully paid, nor will grades be made available until financial arrangements have been satisfactorily made with the Business Office.

REFUNDS

TUITION, including private instruction in art, music, and speech.

Date of Withdrawal	Percentage of Refund
Before end of second week.....	85%
Before end of fourth week.....	70%
Before end of ninth week.....	40%
After end of ninth week.....	none

ROOM AND BOARD

No refund of Room rental will be made. In case of withdrawal from campus residence, Board charges will be refunded on a pro-rata basis. (Rebate of board charges during absence from campus will not be made for less than one week.)

FEES

No refund of fees will be made.

ALL REFUNDS MUST BE CLAIMED THROUGH PROPER APPLICATION TO THE BUSINESS OFFICE. THE DATE OF SUCH APPLICATION WILL BE USED TO ESTABLISH THE REFUND PERIOD.

SELF SUPPORT

Whitworth College makes every possible effort to assist young people in obtaining an education. Practically all of the work in caring for the grounds, buildings, and secretarial work is done by the students who must obtain some work in order to help with expenses. Opportunities for work in town occur chiefly in domestic and office assistance, personal service of various kinds, canvassing, manual labor, etc. Students who find it necessary to work during the regular college year will be expected to reduce their academic load.

Laboratory Assistantships are available to students majoring in biology, chemistry and physics. Personality, scholarship, technical skill, and financial need will be considered in awarding these assistantships.

Applications for on-campus work are handled through the Business Office. Applications for off-campus employment are handled through the Dean of Men's office.

VETERANS' EDUCATION

Whitworth College is approved to provide training under Public Law 346, 16, 894, 550 and 634, in cooperation with the Veterans' Administration. Under 550 and 634 the student pays for his own tuition, fees, and other expenses.

SCHOLARSHIPS

Whitworth College awards a limited number of scholarship grants each year to applicants of proven financial need and superior academic performance as evidenced by the student's secondary school record or record in previous college studies. These grants divide into three basic categories:

1. **ACADEMIC SCHOLARSHIPS** (half-tuition each). To qualify for such a scholarship, high school seniors must rank in the upper 10% of their graduating class. Current students and transfer students must have a grade point average of 3.25 or better in all previous college studies.
2. **ACTIVITY AWARDS** (varying amounts, \$100.00 minimum). Students making application for awards must have cumulative average of 3.0 or better and have record of superior performance and capacity in special activity or study areas. Those special study or activity areas considered are art, music, drama, forensics, science, and journalism.
3. **MISCELLANEOUS** (varying amounts). These grants are given by individual donors and have a wide range of qualification patterns.

In applying for a scholarship grant, an applicant must submit regular admissions credentials (see page 5) and also complete the scholarship application furnished by the College. The applicant should clearly indicate the amount of scholarship aid needed, and the Scholarship Committee will determine the type of scholarship funds for which he is eligible. Scholarship application must be completed by March 1 to be considered for the following school year. Whitworth College is grateful for the following scholarships which have been given to help worthy and needy students:

THE ALUMNI SCHOLARSHIP—full tuition, given annually to an outstanding freshman applicant (renewable at one-half tuition annually).

THE DAVE BARNES MEMORIAL SCHOLARSHIP FUND—grants by appointment of Mr. Aubrey M. Leavitt.

THE HARVEY A. BRASSARD SCHOLARSHIP—\$150.00, given annually by the Spokane Advertising and Sales Association to a deserving freshman majoring in Advertising.

THE LLOYD M. HARDER MEMORIAL SCHOLARSHIP FUND.

THE WM. MOIR MEMORIAL SCHOLARSHIP—income from \$31,000, allocated to qualified pre-engineering students.

THE NATIONAL SCIENCE FOUNDATION RESEARCH GRANTS—\$400.00 annually to qualified applicants, including freshmen, who are majoring in chemistry or physics.

THE JANE BAGNALL O'BRIEN SCHOLARSHIP FUND—\$1,000.00; grants from this fund made to graduate nurses pursuing studies toward a college degree in nursing.

THE MARY E. QUACKENBUSH SCHOLARSHIP FUND—income from \$30,997.72.

THE SEATTLE FIRST PRESBYTERIAN CHURCH SCHOLARSHIP.

THE GRACE A. STAYT MEMORIAL SCHOLARSHIP—interest on \$6,000.00.

THE R. S. STEVENSON SCHOLARSHIP—\$350.00 given annually to a qualified applicant who plans to go into public school teaching.

THE ESTHER WEITZMAN SCHOLARSHIP—interest on \$4,000.00.

THE WESTMINSTER SHORTER CATECHISM SCHOLARSHIPS—for members of the United Presbyterian Church in the U.S.A. who can recite perfectly the Shorter Catechism.

THE ETHEL FAIRFIELD WHITE SCHOLARSHIP FUND—income from \$71,900, allocated in varying amounts to qualified applicants.

LOAN FUNDS

Loans to needy Whitworth students are made available from the following grants:

JOHN E. ALEXANDER LOAN FUND.....	\$ 425.00
MR. & MRS. FRANKLYN ARMSTRONG LOAN FUND	600.00
DAVE BARNES MEMORIAL LOAN FUND.....	880.00
GEORGE N. BEARD LOAN FUND.....	70.00
GENERAL LOAN FUND.....	2,744.28
FRANCES GILBERT HAMBLIN LOAN FUND..	2,966.68
ELIZABETH A. HEWIT LOAN FUND.....	500.00
OTIS AND ELIZABETH MERRITT LOAN FUND	100.00
EARL OATMAN MEMORIAL LOAN FUND.....	250.00
JANE BAGNALL O'BRIEN NURSES' LOAN FUND.....	2,000.00
JOSIE SHADLE LOAN FUND.....	15,000.00
SARAH A. STEWART LOAN FUND.....	275.00
STEVENS-SWANBY LOAN FUND.....	454.39
I. W. THOMSEN LOAN FUND.....	1,000.00
DAVID AND EMMA THORNDIKE LOAN FUND	2,000.00
VICKER ROTARY LOAN FUND.....	1,560.00
DR. L. N. WILLIAMS LOAN FUND.....	2,246.11

GRANTS-IN-AID

For Members of Ministers' Families.

A grant-in-aid on tuition of 25% per semester is available for dependent sons and daughters of ordained Christian ministers. This grant-in-aid is continuous after first semester only on condition that an average scholarship grade of at least C shall have been earned in the preceding semester. It is also understood that the scholarship will be continued on the basis of full cooperation by the students in the program of the College. This aid is granted if formally requested in writing by the parent. It does not apply for graduate students.

Dependent sons and daughters of ministers active in the Presbyterian Synod of Washington will receive a 50% discount in tuition charges.



DIXON HALL

Student Activities

therefore, is expected to become an active member of at least two organizations. It is advisable for the student to restrict his activities to not more than four organizations. It is suggested that new students do not join clubs or organizations until the beginning of the third week of the semester.

In order to be recognized as a Whitworth College organization a group must have its constitution approved by the student executive board and the faculty. All constitutional amendments and by-laws of the organization must also receive the sanction of the student executive board and the faculty. No organization shall function or be recognized until official notice of approval has been given to the applying organization by the faculty. Each student organization must have a faculty adviser with whom it counsels as to the programs and policies. The adviser is held responsible for reports on the character of the work of the organization and also the individual membership.

ASSOCIATED STUDENTS OF WHITWORTH COLLEGE

THE STUDENTS' ASSOCIATION is the general organization of the student body. Voting members are those who have paid all their fees for the semester and are regularly enrolled. Membership entitles the student to a subscription to "The Whitworthian," admission to games played on the home grounds, a voice in the regulation and promotion of the student association activities, and a copy of the "Natsihi" at the student's price. The president and vice-president of this association are chosen annually from the two upper classes of the college. The secretary and treasurer must have attained sophomore standing. A fifth executive is chosen by the Council.

THE STUDENT COUNCIL is the ruling organization of the Student Body. Its membership consists of the Student Executive officers, eleven representatives for the campus students (one from each college-supervised living group, and representatives of off-campus students); the ratio of representation to constituency shall be equal for both campus and off-campus students.

THE STUDENT EXECUTIVE consists of elective officers of A. S. W. C. and one elective member from the Student Council.



The extra-curricular activities at Whitworth College are maintained for the purpose of giving the student opportunity for development of personality and leadership. These activities are considered important in the education of youth. Each student,



GENERAL STUDENT ORGANIZATIONS

ALPHA KAPPA CHI is Whitworth's official club for off-campus students. It exists to promote good fellowship among its members through various activities of the group.

A.M.S. THE ASSOCIATED MEN STUDENTS is an organization to promote the interest and welfare of all men enrolled in the college.

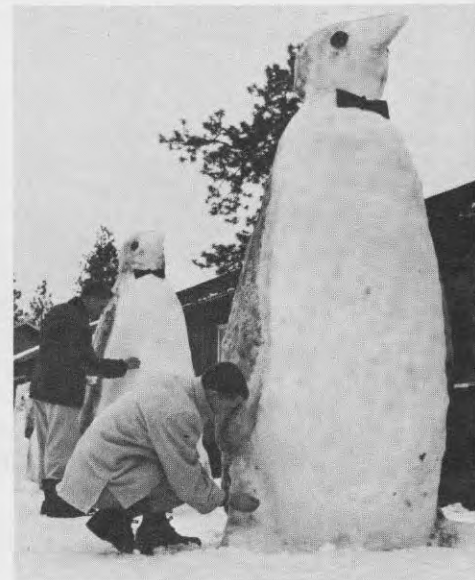
A.W.S. THE ASSOCIATED WOMEN STUDENTS is an organization which serves as an integrating body to strengthen the spirit of loyalty and good fellowship among women students. Its purpose is to develop cooperation between the Student Body and the administrative offices of the school, provide a means by which the women students may express opinions on matters of interest to them, and spiritually unite all Whitworth women.

THE COSMOPOLITAN CLUB is an organization for students from other countries, the purpose being to further the understanding and appreciation of other races and to provide an opportunity for lasting friendships in Christ with those of other cultural backgrounds.

DEPARTMENTAL ORGANIZATIONS

ALPHA BETA, "The Best in Life," is a home economics group offering to Whitworth College women opportunities to promote the best ideals of the home.

CHI EPSILON is an organization of students interested in the field of Christian Education, both as professional and as volunteer workers.



THE ENGINEERS CLUB is a fellowship among the engineering students and sponsors field trips, technical motion pictures, professional speakers and discussion programs to encourage their personal and professional growth.

THE STUDENT WASHINGTON EDUCATION ASSOCIATION is an organization which seeks to promote and further interest in the teaching profession, and to develop spirit on the part of college students preparing for this profession.

THE PEP BAND is a group which contributes to the life of the college by providing music for games and for many other functions.

THE PRE-MED CLUB gives those interested in the medical professions an opportunity to investigate and answer problems peculiar to their group.

THE "PSYCH" CLUB is an organization that sponsors special meetings and activities for all students interested in psychology.

THE SKI CLUB is a group of students organized to promote winter sports on the campus and to provide means during the winter months for trips to the Mt. Spokane skiing area for skiing enthusiasts.

THE TRI-SCHOOL CHAPTER OF STUDENT AFFILIATES OF THE AMERICAN CHEMICAL SOCIETY is a group which promotes professional interest and fellowship among students majoring in chemistry. Interesting meetings, discussions with prominent scientists, and field trips are arranged by the participating groups from the campuses of Whitworth College, Gonzaga University and Eastern Washington College of Education.

THE "W" CLUB is made up of varsity award winners in intercollegiate athletics. Its chief interests concern the promotion of athletics and recreational activities of the college.

THE WHITWORTH BUSINESS CLUB is composed of majors and minors in the Department of Economics, Business Administration and Secretarial Science, under advisement of the head of the Department. The basic purpose is to develop a relationship between business students at Whitworth and the economic world, and to keep informed on current business and economic affairs.

THE WOMEN'S RECREATION ASSOCIATION is an organization of women who are interested in sports and recreational activities. A member of the association may receive a block letter, a sweater, a pin, and a school blanket after earning a determined number of points.

To stimulate further interest in sports activities, W.R.A. sponsors varsity teams in tennis and basketball. In addition this organization promotes an intramural program in basketball, softball, volleyball, archery and other recreational activities.

THE WRITERS CLUB, which meets monthly, is an informal group of those interested in creative writing.

HONORARY STUDENT ORGANIZATIONS

ALPHA DELTA SIGMA is a national professional advertising fraternity for male college students actively interested in advertising. It provides honorary recognition for efforts

in this field and works toward increasing the quality and effectiveness of advertising. The Arthur L. Madsen Chapter was organized at Whitworth College in 1957.

ALPHA PSI OMEGA is the first national fraternity on the campus as well as the first cast of Alpha Psi Omega in the State of Washington. Its membership is made up of the students who have the distinction of becoming members of the Theta Rho cast of Alpha Psi Omega, National Dramatic Honorary Fraternity.

INTERCOLLEGIATE KNIGHTS is made up of men on the campus who have been of outstanding service. This is a chapter of the national Intercollegiate Knights organization.

THE PILETTE CLUB is made up of women students of the Sophomore, Junior and Senior classes, who have high scholarship and have made outstanding contributions to the extra-curricular program of the college. They are selected for membership by the Student Council.

PHI ALPHA is the honorary scholastic organization of the college. Seniors who have attended Whitworth College for one year and have maintained a 3.5 G.P.A. may be elected to active membership, while juniors may be elected to associate membership.

BETA BETA BETA is a national biological honorary organization for biology students who have maintained in their first four semesters of work, a cumulative grade average of 2.7 in addition to a 3.0 average in the biological sciences. The local chapter is Epsilon Kappa. Its purpose is to stimulate sound scholarship, to promote the dissemination of scientific truth, and to encourage investigation in the life sciences.

PI KAPPA DELTA is a national forensic society for those who participate in intercollegiate forensic activities.

RELIGIOUS LIFE

CHAPEL is held three times a week and is a required meeting. Worship is emphasized as an important part of the service. While the exercises are usually devotional, the chapel hour is also employed to bring before the student body the best speakers that can be procured on missions, sociology, evangelism, and kindred topics. Because of our proximity to the city of Spokane, the students have the privilege of hearing a number of distinguished speakers during the year.

CHURCH SERVICES. Sunday Church School and morning worship services are held each Sunday in the Whitworth Community Presbyterian Church which immediately adjoins the campus. Many students and faculty members join there in worship with people of the surrounding community. Churches of all denominations in the city offer opportunities for worship and service to our students. At 7:15 each Sunday evening there is an all-college vesper service on the campus at which time leaders of churches throughout the entire Northwest are invited as speakers.

MEN'S AND WOMEN'S CONFERENCES. Two outstanding annual events are the men's and women's week-end religious conferences, planned by student committees. These conferences, led by well-known Christian leaders, have become important milestones in the lives of many students.



PHILADELPHIANS. The young men who are preparing for Church vocations are organized as Philadelphians, holding regular meetings to hear ministers of different denominations and to discuss the problems and opportunities in the ministry and related fields of service.

SPIRITUAL EMPHASIS WEEK AND SPIRITUAL ADVANCE DAYS. Special days are set aside in the fall and spring semesters for an emphasis on spiritual life and Christian service. These events are sponsored and planned by the Whitworth Christian Fellowship and the administration of the college. A prominent Christian minister or missionary is brought to the campus at such times for a series of messages and personal counseling with the students.

WHITWORTH CHRISTIAN FELLOWSHIP. The Christian activities of the campus are centered in the Whitworth Christian Fellowship. It is organized and functions according to the pattern of the Westminster Fellowship of the Presbyterian Church. The commissioners and other officers are elected by the students and serve as directors and coordinators of the religious life of the campus. This includes conducting all-school vesper services on Wednesday and Sunday evenings, organizing Bible study and prayer groups, supplying gospel teams and volunteer workers for nearby churches, and promoting Spiritual Advance days and Spiritual Emphasis week.

EXTRA CLASS ACTIVITIES

Many opportunities are given to Whitworth students both to participate in and to enjoy activities apart from academic work. Whitworth encourages each student to develop interests in some form of activity.

COLLEGE PUBLICATIONS. Student publications are under the direction of the Associated Students of Whitworth College through the publications council.

THE WHITWORTHIAN, the organ of the student body, is published weekly. Any student is eligible to serve on the staff.

THE NATSIHI, devoted to recording the major activities, classes, clubs, etc. of general college interest, is the annual publication of the Student Body.

THE PINES is the yearly anthology of student writings which appears in the spring. It includes poetry, short stories, descriptive pieces, character sketches and drama.

DRAMATICS. Under the supervision of the department of speech and drama, several full-evening programs of plays are presented each year. Each student, whether enrolled in any speech course or not, is given opportunity to try out and participate. Whitworth has a chapter of Alpha Psi Omega, a national dramatic honorary fraternity on the campus. Membership comes through active participation in college productions.

ATHLETICS. The Whitworth program affords opportunity for the student to increase or develop his interests and abilities in physical education as a career or as an avocation.

The general program includes experience for men, both intercollegiate and intramural, in football, basketball, baseball, track, tennis and golf.

Whitworth College is a member of the Evergreen Conference offering to men intercollegiate competition in six different sports.

Women engage in basketball, softball, tennis, archery, volleyball, swimming, badminton, and rhythmic activities.

MUSIC. The general program of the music department provides experience in such organizations as chorus, a cappella choir, band, orchestra as well as small instrumental and vocal ensembles. Opportunity for travel, as well as participation in broadcasts over major radio stations of the Northwest, is afforded these organizations.

FORENSICS. General activities in this field, in order to obtain experience in intercollegiate competition, include debate, extempore speaking and oratory. These activities are under the direction of the department of speech but not limited to those in the department.



Administrative Policies



DORMITORY REQUIREMENTS

Each dormitory student is expected to supply himself with the following: bed linen for single beds, curtains, rugs, desk lamps, etc. (Draperies will be furnished in Warren and Arend Halls.) A student is expected to care for his own personal laundry and linen. Laundry facilities are provided for each dormitory. An inexpensive service for flatwork is available through local laundries. All linen and clothing should be plainly marked with name tapes. Personal belongings may be sent in advance to the college. When this is done, they should be addressed to the owner at Whitworth College.

Women students under twenty-one years of age are not permitted to travel by car beyond the boundaries of Washington and North Idaho except upon receipt of written permission of one's parent or guardian. Freshman women desiring to stay overnight off-campus are required to have written permission from their parents for each occasion.

Single students not living in their own homes are required to live in the college dormitories unless they obtain permission of the committee on personnel. Application for such permission must be made on forms secured from the Dean of Men or the Dean of Women. Off-campus students may live only in approved residences which must be properly supervised. In no case will men and women students be permitted to live in the same building. Students working off-campus for board and room must also have the consent of the Dean of Men or the Dean of Women.

The college dining room will be open for new students on the afternoon preceding the beginning of Orientation Days and closed throughout the Christmas and Spring vacations. If students must remain in residence, special arrangements will have to be made with the Administration as the charges made for room and board do not cover these vacations.

Students living in the dormitories are expected to carry a minimum load of twelve hours of study.

DISCIPLINE

The Administration of Whitworth College reserves the right to exclude at any time students whose conduct or academic standing it regards as undesirable. Neither the college nor any of its officers shall be under any liability whatsoever for such exclusion.

The Dean of the College may at any time dismiss a student from a course if in his judgment the student has neglected the work of that course. It is understood also that students may be relieved of campus responsibilities if at any time they fail to discharge their duties.

HEALTH SERVICE

A Student Health Service is provided for all regularly enrolled students consisting of dispensary, infirmary and accident care. There is a medical director and a staff of graduate nurses giving care on a 24-hour basis. Accident insurance is provided for all students on the \$10 deductible basis. Details of the health service are given in the student handbook.

PERSONAL PROPERTY REGULATIONS

Whitworth College or any of its officers or organizations are not responsible or liable in any way for damages done to property or persons in case of accidents in and around the college buildings or on trips representing the college in any activities. Students, faculty, and others participating in any college function, on or off the campus, do so at their own risk. The college is not responsible for jewelry, money or other articles left in students' rooms, classrooms, or on the campus.

College property damaged by students will be replaced from the student's dormitory Breakage Fee Deposit. In case the breakage exceeds the deposit fee the student will be charged with the balance.

Guns are not permitted on the campus without the consent of the Dean of Men or Dean of Women.



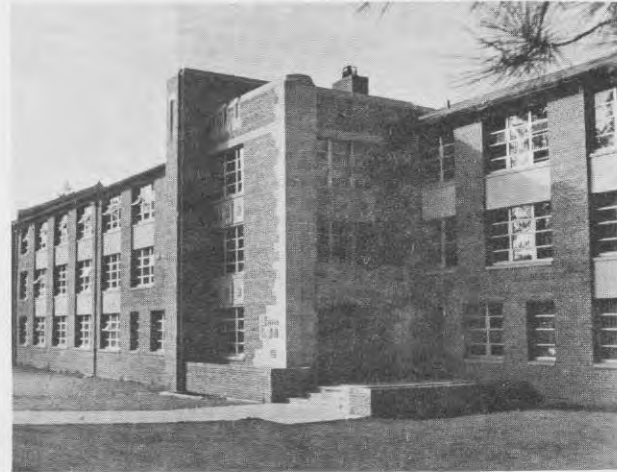
McMILLAN HALL



BALLARD HALL



AREND HALL



WARREN HALL



BALLARD LOUNGE

SOCIAL LIFE

The social life on the campus is under the general direction of the ASWC Social Committee made up of a representative from each class with the student body vice-president as chairman. A great many social events are held during the year, including Orientation Week activities, Homecoming, Hanging of the Greens, Snow Frolic, Beefsteak Breakfast, and the May Festival. Many other affairs are held by the classes, dormitory groups, and other organizations. Social dancing is not permitted at Whitworth or at any Whitworth sponsored function.

STUDENT CONDUCT

Whitworth College seeks to inspire in its students a high standard of conduct on the basis of Christian ideals. Students are expected to show proper respect for the college, its regulations and properties, and to respect the rights of others, both off and on the campus. Students shall not use intoxicating liquors at any time and the use of tobacco on the campus is prohibited.

Academic Regulations

Each year the College gives careful attention to the selection of incoming students who may best profit from the type of instructional program which is offered. Studying in college is often quite different from that of an earlier learning experience. In view of this, it is also important

that each student receive the best possible academic counseling. It is also important that he carefully observe the policies of the school with regard to attendance at class and the appropriate load which he should carry in the light of his extra-class activities. The academic offices have been arranged to provide each student with the information which will be most helpful to him in attaining the educational goals which he has set for himself. If each student gives careful attention to the academic regulations which follow, he will experience little difficulty in understanding the entire integration of the academic program.

ACADEMIC LOAD

Fifteen to sixteen hours, exclusive of physical education, is the normal schedule. An average grade of 3.00 (B) in the preceding semester is required for an eighteen hour schedule. A failure in any one course in any semester will lead to a reduction of a student's schedule in the succeeding semester.

Students wishing to audit certain classes may do so provided they register for the course as an audit, and provided that they take into consideration that one-half the hours audited will count towards the total load being carried. The amount charged for auditing a course will be found under fees.

Students will not be permitted to enroll for courses at another college or take work by correspondence or extension through other institutions while attending Whitworth College except in cases where special permission has been given by the Dean or the Registrar.

In general, students who work from one to two hours per day may take a normal load of from 15-17 semester hours. If students increase the amount of hours which they work per day, it is expected that their study load will be decreased proportionately.

Any student who wishes to enroll for more than seventeen hours must petition the Academic Board for permission.

ATTENDANCE

Regular attendance is required in all classes and at all college chapel and assembly periods. Class attendance is kept by the individual instructors and absences will be reported to the Dean's office.

ABSENCES

Voluntary absence from class or laboratory is a distinct loss to the student and will be considered in the preparing of grades. Students finding it necessary to be absent for a period of two days or for an individual class should, when possible, make arrangements with the instructor before the absence; if not before, then as soon as possible following. Should the absence require more than two days, such permission should be secured from the Academic Board.

If the total number of a student's absences (excused and unexcused) exceeds three times the number of class hours per week, registration in that course may, at the discretion of the instructor and the Academic Board, be cancelled and the student's grade

becomes an "F." Chapel absences are treated in the same manner as class absences and a grade of "S" or "F" will be recorded at the close of the semester, determined by the number of chapel absences. The Academic Board reserves the right to drop from college any student at any time whose record warrants such action.

Grade cuts for unexcused absences are to be the responsibility and at the discretion of the individual instructor.

Students who have unexcused absences prior to or following a holiday period will receive double zero's for the classes missed.

CLASSIFICATION

A student's classification is determined at the beginning of each semester according to the following plan:

- Soph.—28 semester hours and 56 grade points.
- Junior—60 semester hours and 120 grade points.
- Senior—90 semester hours and 180 grade points.

CHANGE OF CLASS SCHEDULE

A student may not withdraw from any class or change his registration unless such changes are filed in writing with the Registrar and approved by the instructors whose classes are being dropped or added. A student withdrawing from a class after the third week of a semester must be passing in each course from which he seeks a withdrawal or receive a "WF" in the course. No student may withdraw from classes three weeks prior to the end of the semester except with the approval of the Academic Board. Courses cannot be added after the third week of the semester. Students must inform the Registrar upon withdrawal from the college. If this is not done a "UW" will be placed on the permanent record indicating an Unofficial Withdrawal and will be treated as an "F" in computing the grade point average.

ELIGIBILITY REQUIREMENT

To participate in any organized extra-curricular activity held on or off the campus or to represent the college or any organization in a public way, a student must be regularly registered and making passing grades in at least twelve hours of college work.

EXAMINATIONS

New Students. All new students take the University of Washington Pre-College Differential Guidance Battery in the spring of the senior high school year, during the summer prior to entrance, or at the time of entrance to the College. The test results and grade predictions are used for subsequent guidance and for assignment to the proper section of English Composition. The fee for this battery is \$5.00.

Final. Final examinations are given in all subjects at the close of each semester. Students who for reasons of illness or necessity find it impossible to report for a final examination may petition the Academic Board for permission to take a make-up examination. In no case will the examination be given in advance of the scheduled time.

Validating. Validating examinations are given at scheduled times for the benefit of students who have had a given course and can show proof of having had the course for which they have no transferable credit, provided that the course corresponds to one offered at Whitworth College. (See validating credits for further information.) Such examinations will cost the student a fee of \$1.00 per credit hour received.

Students seeking to validate certain credits must make application for such validation during the first semester of residence and examinations for such validation must be completed before the end of the first year of residence. If certain courses which are required in given departments are not validated or waived during this time due to neglect on the part of the student, he must register for the course not later than the beginning of his junior year.

FAILURES

Parents or guardians of freshman students under 21 years of age will be notified of unsatisfactory or failing work at the end of each semester unless the student has filed evidence that he is self-supporting or a veteran.

A student will be requested to withdraw from the college whenever his record is considered unsatisfactory by the Academic Board according to the regulations listed above.



GRADES AND GRADE POINTS

Grades are given and recorded as follows: A is 100-96; B, 95-88; C, 87-78; D, 77-70; W, Withdrawal; UW, Unofficial Withdrawal; S, Satisfactory without grade; F, Failure; I, Incomplete. An "n" after a course signifies that the course is hyphenated, and no credit will be given until the second semester's work is completed. A UW will be computed as an F in determining the grade point average.

An Incomplete is given only in cases of excused absences, illness, etc., and must be made up within six weeks after the beginning of the first regular term after the incomplete is given. At this time the final grade is recorded as turned in by the faculty member.

In order for the student to remain in good academic standing he must earn at least twice as many grade points as he has hours. Grades carry the following grade point equivalents for each academic hour pursued: A, counts 4; B, 3; C, 2; D, 1; W, UW, and F, 0.

HONORS

Two classes of honors are recognized at Whitworth.

1. **SEMESTER HONORS:** Granted to students carrying at least fourteen semester hours of work and making a grade point average of 3.25.

2. **GRADUATION HONORS:** A student who has been in attendance at Whitworth College for two of his four college years is eligible for the following honors: cum laude if he has earned an average of 3.3; magna cum laude if he has earned an average of 3.7; and summa cum laude if he has earned an average of 3.9. The requirement is based on the total of 124 semester hours required for graduation.

HONORS PROGRAM

Since 1958, an Honors program has been available to gifted junior and senior students, enabling them to do independent work in their major fields and to develop their intellectual potential beyond the point usually achieved in regular courses. Students completing the program will be graduated with an Honors degree.

To enter Honors study a student must have a cumulative grade point average of 3.25 in all his subjects and a cumulative 3.5 grade point average in his major field, junior standing or higher, and approval of his major adviser and of the college Honors Council. The student must prove that he is able to do sustained independent study and creative thinking and organizing of a high order. He must be willing to subject himself to rigorous self-discipline.

An Honors student takes a minimum of nine credit hours in Honors seminars during his junior and senior years, substituting the seminars for the same number of hours of regular course work. Honors courses taken in the Junior Year will be numbered 398, in

the Senior Year 498. He will complete a research project, write Honors papers or a thesis, and at the end of the senior year pass with distinction certain comprehensive examinations as required by the Honors Council. Throughout his Honors work the student must sustain at least a 3.25 cumulative grade point average in all subjects and a cumulative 3.5 grade point average in his major.

Additional information about the Honors program may be secured from the Chairman of the Honors Council.

LOWER AND UPPER DIVISION WORK

Courses are divided into lower and upper division work. The lower division subjects, those numbered 100-299, are designed primarily for freshmen and sophomores. Lower division students are not permitted to enroll in upper division courses without permission from the Dean and from the Head of the Department in which the student seeks enrollment.

Upper division courses, those numbered from 300-499, are intended for junior and senior students only. A minimum of forty semester hours in upper division courses taken in the junior and senior year is required for graduation. The graduate courses are numbered 500 and above.

Courses numbered 100-199 given on lower division level cannot under any circumstances be raised to upper division level by additional work.

PERSONNEL AND GUIDANCE

The college seeks to assist each student by providing guidance in the selection of worthwhile goals and developing a plan of action for accomplishing these goals. To achieve this end, incoming freshmen are assigned to specific members of the faculty who serve as curricular counselors throughout the freshman year and until such time as the student has selected his major, when the head of his major department (or a member appointed by the head) becomes his advisor. At the request of the individual student and in cooperation with the Faculty Advisor, the student Personnel Office provides special counseling on problems of vocational choice, choice of a college major and personality problems. In the course of such counseling the results of aptitude, vocational interest and personality tests may be utilized. Additional counseling is available through the offices of the Deans and through referral to Department Heads and individual faculty members.

PROBATION AND DISMISSAL

A student who is not doing satisfactory work at the close of any semester is placed on probation. Probationary status applies for the one succeeding semester.

Freshman: A student must maintain a 1.75 grade point average or he will be placed on probation.

Freshman students who at the close of their first semester's probation fail to obtain the required average will be dropped.

Sophomores, Juniors, or Seniors, must maintain a 2. grade point average. Should they fail to maintain this average at the close of their first semester's probation they will be automatically dropped.

Seniors: Any senior who has completed the required number of credits for graduation but who has been placed on probation for low scholarship at the end of his first or last semester of his senior year shall not be permitted to file application for his degree until his probation has been removed.

Students being placed on probation must limit their academic load to twelve hours. Students on probation or with outstanding conditions on previous work, may not represent the college in any public event or hold any elective or appointive office.

The Academic Board reserves the right to drop any student whose record warrants such action.

Chapel attendance is required and a grade of "S" or "F" is given depending on the attendance record. If a student receives an "F" at the end of any semester he is placed on disciplinary probation which is recorded on his transcript. If he receives an "F" the following semester he will not be permitted to re-enroll at Whitworth College. Seniors receiving an "F" in chapel will not be allowed to participate in the commencement activities or receive their degrees.

REGISTRATION AND ORIENTATION

The first step in the registration process is to participate in all activities during Orientation Week. Through these activities, students will meet the faculty and students and become familiar with the college program. Attendance at orientation activities is required.

All freshmen take a guidance test battery at the time of entrance as an aid to subsequent guidance and placement in English Composition sections. A late testing fee of \$2.00 is charged if this battery is not taken at the regularly scheduled time of administration.

A fee of \$2.00 is charged for late registration. Students may not be admitted to the college after the third week of the term except by special arrangements with the Dean of the College. No course can be added to a student's schedule after the fourth week, unless the course is one given on an accelerated basis.

Degrees and Requirements

UNDERGRADUATE DEGREES

Whitworth College offers two degrees which one may receive after successfully completing a four-year program.

To receive a Bachelor of Arts or Bachelor of Science Degree, a student must have satisfactorily passed 120 semester hours of study plus four semester hours of physical education. To qualify for graduation, a student must have accumulated a grade point average of 2.0 or a C and have maintained at least a C average in his major and minor fields.

A graduate of the institution desiring a second bachelor's degree is required to follow the curriculum of the second department and to present not less than 154 semester hours of credit. Not more than one four-year bachelor's degree may be granted at any one Commencement.

GENERAL GRADUATION REQUIREMENTS

1. English Composition — 6 hours — to be taken during the freshman year. (English 101 and 102 are generally required in the freshman year, but entering students with a high level of proficiency in writing may substitute other work in language and literature. To be graduated, all students must demonstrate continued competence in the language by maintaining the required standard in written work for all classes and by passing the language proficiency examination that is given in the junior year.)
2. Physical Education and Health — 5 hours (Health to be taken during freshman or sophomore year and two hours a week of physical education activity classes to be taken throughout freshman and sophomore years.) Only four hours of physical education activity credit can be counted towards the baccalaureate degree except for physical education majors.
3. Science and Mathematics — 8 hours.
4. Social Science — 9 hours which may be taken from the following fields: economics, history, political science, sociology, and up to three hours of psychology.
5. Public Speaking — 2 hours. (Fundamentals of speech must be taken in the freshman or sophomore year unless the student wishes to satisfy the requirement by examination. This must be done during the freshman year, or first year of residence.)
6. Foreign Language (Department Requirement.) Departments requiring foreign language will work under the following plan:
The ability to pass a proficiency examination in one foreign language or to meet the following requirements:
 1. If a student has had two years of a foreign language in high school and can qualify for intermediate language he is only required to take one year in college, or 6 hours.
 2. Students who have had no previous foreign language will be required to complete two years, or 14 hours.
7. Bible — 8 hours. Six hours must be in Bible Literature, two hours may be taken in Christian Education or Religion during the junior or senior year if four hours of Bible have been completed. One course should be taken in each year of residence regardless of graduation plans.
8. Upper Division courses of at least 40 hours to be completed in the junior and senior years.



Majors and Minors

The student must select a major course not later than the close of the freshman year. A major shall consist of not less than 24 semester hours and not more than 50 semester hours (in the case of music 60 semester hours will be accepted) in any one department. The student must also select at least one minor. A minor shall consist of not less than sixteen semester hours. The requirements for both majors and minors are set forth in the departments where the offerings are listed.

Each of the divisions constitutes a field of concentration. When a divisional major is offered, the number of semester hours required is listed at the beginning of the division.

In the case of transfer students, 6 hours of the major must be taken at Whitworth College, unless the requirement is waived by the Academic Board and has the approval of the major department.

Residence Requirements

The student's last semester's work toward a baccalaureate degree must be taken in residence at Whitworth College except in cases of pre-medical, pre-technological, and pre-law students who may find it possible to use their professional school credits in lieu of their senior year.

Transfer students must have earned at least twenty-eight hours in residence at Whitworth College. Students transferring in their senior year must complete at least twenty-eight hours regardless of the total number already completed.

Extension Credit

Not more than thirty semester hours of extension and/or correspondence credit from a fully accredited college will be accepted towards a degree. This credit is only granted when general requirements have been met after the student has satisfactorily completed one year in residence at Whitworth College. No resident student may take work in or through another institution at the same time he is pursuing a course at Whitworth College unless he has obtained written permission from the Dean or the Registrar.

The college will accept USAFI courses taken through approved institutions, and a maximum of three courses taken independently. Other courses for which credit is desired must be validated by examination.

Attendance at Commencement Activities

A student will not be permitted to appear at graduation or participate in senior events if he has not completed the required work for a degree. No degree will be granted in absentia unless special arrangements are made and permission is granted by the Academic Board.

GRADUATE DEGREES

The College offers two degrees which may be earned by satisfying the requirements listed under each of the degrees named.

Bachelor of Education Degree

Any student having completed the five-year teacher training course may receive a degree of Bachelor of Education if he has satisfied the following conditions:

1. Has received a Bachelor of Arts or Bachelor of Science degree from an accredited institution.
2. Has fulfilled the requirements for state certification.
3. Has thirty semester hours of residence work at Whitworth College beyond the bachelor's degree.
4. The course schedule must have the approval of the Department of Education.

Master of Arts Degree in Education

General information regarding admission, residence, and time when degrees are conferred is given below:

1. The filing of an application together with an official transcript of record must be forwarded to the Dean of the Graduate School. The work presented for admission must include a minimum of 16 hours of education.
2. A Bachelor's Degree must be held from an accredited college or university with a grade point average of three or above (B) in his upper division work. A candidate with a lower average who shows promise of success may be admitted, on probation, by action of the Graduate Committee but he will be dropped if his grades in graduate work fall below a three point average.
3. A minimum of 30 semester hours of graduate courses will be required with a grade point average of 3.
4. The work for the Master's Degree must be done in residence, and if the candidate expects to complete this work in one year, he must be able to give his whole time to it. All work, including the thesis and/or educational study when required, must be completed within a six-year period.
5. Two semesters of residence (24 semester hours) at Whitworth is required. A transfer of not more than six semester hours from other institutions is allowed.
6. The Master's Degree will be conferred only at the end of the regular academic year. Any student finishing his work during the summer must return the following spring for graduation exercises.
7. Each candidate shall elect one of the three programs involving a field of concentration. If a research project is involved, the student will be given an official advisor under whom he will pursue his work.

Degree Requirements for Master of Arts:

The student has a choice of three fields of concentration. Candidates for Washington State Principal's Credentials should select School Administration for their field of concentration.

Field of Concentration: Educational Guidance

General Requirements:

1. 6 to 9 hours of work in Psychology to be chosen from the following courses:
Psychology of Adjustment
Psychology of Personality
Measurement in Psychology
Educational Psychology
2. 6 to 9 hours in Education (courses numbering 500 or higher):
Advanced Techniques of Counseling and Guidance. Balance to be chosen from:
Advanced Principles of Education
Advanced Educational Psychology
Current Educational Thought
Trends in Curriculum Building
(Note: The total of work in Education and Psychology together should be 15 semester hours.)
3. Sociology—Required course: "The Family".
4. Anthropology — Required course: "Cultural Anthropology".
5. 3 semester hours in any upper division or graduate course offered by the college.
6. The equivalent of 6 semester hours of supervised child-guidance experience under the direction of the Spokane Child Guidance Center.
7. Successful completion of a comprehensive examination based on the several courses chosen by the student and the applied child-guidance experience.

Students who already have the equivalent of a required course can substitute another course in the same field with the approval of the advisor.

Field of Concentration: Classroom Teaching

General Requirements:

1. 9 to 12 hours of work in the student's liberal arts teaching field.
2. 6 to 9 hours in professional education courses number 500 or higher.
3. 6 hours in non-professional liberal arts courses.
4. 6 hours applied teaching project. The student develops a classroom teaching program that reflects the graduate learnings. The college co-operates in the development of this program and observes it in operation.
5. Successful completion of a comprehensive examination based on the several courses chosen by the student and on the applied classroom teaching program.

Field of Concentration: School Administration

General Requirements:

1. 16 semester hours of professional study as required for the Provisional Elementary, Provisional Secondary, Provisional General, or Standard General Principal's Credential in Washington.
2. Laboratory and internship experiences as required for one of above credentials.
3. 8 hours of work in liberal arts courses.

4. The equivalent of 6 hours of reading research in which the student will read exhaustively on some topic related to school administration and develop a graduate paper based on the readings.
5. Successful completion of comprehensive examination based on the course work, laboratory and internship experience, and the reading research.

Graduate courses in education are listed under the Division of Education and are numbered 500 and above. The graduate may select, not to exceed 12 semester hours, in the following academic areas: art, biology, business administration, chemistry, Christian education, English, history, modern language, music, philosophy, physical education, psychology, and sociology.

For further information regarding the Graduate Program, write to DIRECTOR OF THE GRADUATE SCHOOL.

Professional and Pre-Professional Studies

Whitworth College provides training for a large number of vocations. However, there are several professional areas which deserve special attention because of the wide interest in them. The following statements contain descriptions of the pre-professional programs which are of major concern.

DENTISTRY

Students who plan to enter the dental profession usually follow the general program outlined for pre-medical students. It is possible to be admitted to some schools of dentistry with only two years of preparation, but it is advisable to take four years. Pre-dental students should follow the curricula of pre-medical studies with the exception of quantitative chemistry and a language.

ENGINEERING

The successful practice of engineering requires adequate training in the humanities and social sciences. More and more individuals with engineering training are filling responsible positions in our increasingly complex economy. At the present time over fifty percent of top-management positions are filled by such individuals. Furthermore, while 90% of present business executives are college graduates, approximately seventy-five percent of these college graduates have obtained some or all of their college education in a small private liberal-arts college.

The pre-professional basic studies for all first year engineering students are the same regardless of the specialized branch of engineering in which a student expects to major in future years. During the second year specialization in engineering education begins. At the end of two years some engineering students may wish to change to a science major, for example, chemistry, physics, or mathematics. They can do this

without lost time. During the third year engineering students will be pursuing the Three-Two Plan.

Whitworth College participates in the Three-Two Engineering Plan approved by the Board of Christian Education of the Presbyterian Church, U.S.A. Following the three years of basic study at Whitworth College, the student transfers to the engineering college of his choice and graduates in two years. At the end of the five-year combined studies he receives a Bachelor of Arts Degree from Whitworth and a Bachelor of Science Degree in his major engineering field from the cooperating college or university.

At the present time, the Three-Two Plan is available in cooperation with Lafayette, Stanford, University of Washington and Washington State College, although students wishing to transfer to other engineering schools will find that the Whitworth program is designed to coordinate with standard engineering curricula. Additional information regarding requirements, courses, and possibilities of a Three-Two Plan with other colleges or universities may be secured by writing the Engineering Department or Admissions Office.

In the Three-Two plan the Engineering students, while in attendance at Whitworth, take courses as follows:

FIRST YEAR—All Engineering Students Humanities and Social Sciences

	Hours
Bible	2
English Composition 101	3
Physical Education	2
Engineering and Basic Sciences	
Engineering 101, Problems	2
Engineering 102, Orientation	1
Engineering 103, Drawing	2
Engineering 104, Surveying	2
Chemistry 111, 114, Lecture	6
Chemistry 138, Qualitative Laboratory	2
Physics 111, Lecture	2
Mathematics 113, Plane Trigonometry	2
Mathematics 115, College Algebra	3
Math. 116, Anal. Geom. and Calc.	5
Total	34

SECOND YEAR

	CE-ME EE & Other Eng'rs.	Ch. E
Humanities and Social Sciences		
Bible	2	2
English Composition 102	3	...
Physical Education	2	2
Speech 101 .....	...	2
Engineering and Basic Sciences		
Engineering 202, Electrical-Magnetic and Electronic Circuits	3	...
Engineering 201, Statics	2	...
Engineering 204, Dynamics	3	...
Eng. 203, Desc. Geom.	2	...
Chemistry 331, Quantitative Analysis ....	...	2

Chem. 337, Quant. Anal. Lab.	2
Chemistry 341, 342, Organic	6
Chemistry 348, Organic Lab.	2
Physics	8
Math. 255, Calc. and Anal. Geom. ..	5
Math. 262, Diff. Equations	3
Total	33
	34

THIRD YEAR

	CE-ME & Other Eng'rs.	EE	Ch. E
Humanities and Social Sciences			
	Hours	Hours	Hours
Bible	2	2	2
English Composition 102 .....	...	...	3
Psychology 101	3	3	3
Speech	2	2	...
Economics	6	6	6
Electives	6	3	...
Engineering and Basic Sciences			
Engineering 201, Statics .....	...	...	2
Eng. 202, Electric, Mag. & Electronic Circuits .....	...	...	3
Engineering 301, 302, AC-DC Electronic Equipment and Circuits I and II .....	...	6	...
Engineering 303, Mechanics of Materials	2	2	2
Engineering 304, Materials of Engineering	2	2	2
Eng. 311, Eng. Anal.	3	3	...
Eng. 203, Desc. Geom. ....	...	...	2
Chem. 361, 362, Phy. Chem. ....	...	...	6
Chem. 367, Phy. Chem. Lab. ....	...	...	2
Physics 415, Introductory Thermodynamics	3	...	...
Math. 415-416, Adv. Calc. ..	3	3	...
Total	32	32	33



LAW

In recent years, law schools have been stressing a broad liberal arts background as furnishing the best possible basis on which to build a professional career. In general, neither the American Bar Association nor leading law schools require any particular pre-legal curriculum. They do, however, stress the ability to communicate properly through the development of skill in reading, writing, speaking, and logic.

If a student has decided on a particular law school, he may select those courses which will meet a given school's requirements. If this decision has not been made, the college advises him to major in some field, such as history or political science. Attention is also given to the various aspects of business.

MEDICAL TECHNOLOGY

Students may become qualified in two years to enter a School of Technology (starting Jan. 1, 1962, three years will be required) and after spending one year in a technological school they will be eligible to take examinations for becoming a registered Medical Technologist. Whitworth has affiliation with the Medical Technology schools of the Deaconess and St. Luke's Hospitals whereby if a student spends three years at Whitworth before entering the school of technology he may meet the requirements for certificate issued by the Registry of Medical Technologists and also receive a B.S. degree.

MEDICINE

The curricula offered allow for preparation for medical and dental schools, for schools of osteopathy, for the B.S. in nursing for graduate nurses from an accredited hospital, and a B.S. in connection with training in Technology. The courses recommended will satisfy the requirements of most professional schools.

Schools of medicine and osteopathy require only three years of preparation but a four-year plan is recommended because it allows more freedom in selection of electives of a cultural value as well as the basic science requirements.

The major selected by pre-medical students is optional, depending on the interests of the student. The usual majors chosen are Biology, Chemistry, or Basic Sciences. Since about one-third of the medical col-

leges require a reading knowledge of one modern language it is recommended that two years of a modern language be included in the curriculum.

A student who, during his three years in the pre-medical curriculum, meets all the institutional requirements for graduation except completion of a major and the fourth year of residence may meet the requirements for a B.S. in Pre-medical Studies in the first year at the medical school.

CURRICULA OF PRE-MEDICAL STUDIES

Recommended for the Freshman Year

English 101, 102, Composition
Mathematics 104 or 115, Algebra
Biology 111, 112, General Zoology
Chemistry 113, 114, General Chemistry
Speech 110, Fundamentals
Bible
Physical Education

Recommended for the Sophomore Year

Biology 350, Comparative Anatomy
Mathematics 113, Trigonometry
Chemistry 331, Quantitative Analysis
Economics 101, Principles
Bible
History
Psychology 101, General
Physical Education
Sociology 111 or 112

Recommended for the Junior and Senior Years

Biology 352, Embryology
Biology 361, Histology
Chemistry 341, 342, Organic
Physics 211, 212, General
Psychology 359, Abnormal
Foreign Language
Bible

MINISTRY

Students coming to Whitworth who are expecting to proceed to seminary after graduation should generally seek to obtain as thorough a liberal arts education as possible. The American Association of Theological Schools recommends that three-fourths of the student's college work be taken in the following areas:

ENGLISH, including literature, speech, and related studies, at least 6 semesters.

HISTORY, at least 3 semesters.

PHILOSOPHY, including history, content, and method of philosophy, at least 3 semesters.

NATURAL SCIENCES, preferably physics, chemistry, or biology, at least 2 semesters.

SOCIAL SCIENCES, including psychology, sociology, economics, political science, and education, at least 6 semesters.

FOREIGN LANGUAGES, one or more of the following: Greek, German, French. Those who anticipate post-seminary studies are urged to undertake these disciplines as early as possible. At least 4 semesters.

RELIGION, as thorough a knowledge of the content of the Bible as possible is recommended together with an introduction to the major religious traditions of man. At least 3 semesters.

At Whitworth each student must choose one area of concentration. This major may be chosen at the end of the Freshman year and will usually be in the areas of English, history, philosophy, or one of the social sciences.



NURSING

The nursing curriculum is designed to accommodate three programs: 1. Those who desire to take a year of college preparatory to entering nursing at the Deaconess Hospital. 2. Those who wish to work for a degree upon completion of the diploma course at the Deaconess Hospital. 3. Those who want to work for a degree by transferring their graduate-nurse credits from other accredited hospital schools of nursing. These will receive forty-five semester hours of credit. Other candidates will be considered if they have passed their State Board examinations in a state which has a National League for Nursing pool for nurse licenses.

From the student point of view the advantages of the Whitworth-Deaconess affiliation in nursing are:

1. There is the opportunity to select the program which is best for her individual needs and financial situation.
2. It is possible for the student to reach the goal of a diploma in nursing from Deaconess Hospital School of Nursing which qualifies her to become a candidate for State registration. She may also obtain a Bachelor of Science degree with a major in nursing from Whitworth College within a four-year period.

CURRICULUM OF THE BASIC DEGREE

First Semester—Whitworth College

Biology 120, Human Anatomy	4 Hrs.
Psychology 101, General	3
Chemistry 101, 107, General	3
English 101, English Composition	3
Physical Education	1
Speech 110, Fundamentals	2
	16

Second Semester—Whitworth College

Biology 121, Human Physiology	4 Hrs.
English 102, English Composition	3
Sociology 112, Social Problems	3
Bible	2
Physical Education	1
Chemistry 142, 148, Organic	3
	16



SOCIAL WORK

The following program has been developed in consultation with a committee of practitioners representing the Inland Empire Chapter of the American Association of Social Workers, and is endorsed by this chapter. It is recommended that students planning to enter the field of social work major in one of the two fields of psychology and sociology, and minor in the other. In every case the student should plan his entire program in such a way as to meet the prerequisites of the graduate school of social work which he plans to enter. The courses listed below will meet the specific entrance requirements of schools of social work.

Requirements for Schools of Social Work

Sociology 111, Introduction
Sociology 112, Social Problems
Sociology 231, Cultural Anthropology
Sociology 250, Statistics
Sociology 371, Principles of Social Work
Sociology 372, Field Observation
Psychology 101, General
Psychology 210, Developmental
Psychology 324, Psychology of Adjustment
Psychology 359, Abnormal Psychology
Psychology 468, Theory of Counseling and Guidance

Courses Recommended for Social Work Students

Sociology 353, The Family
Sociology 241, Social Psychology
Economics 101, 102, Principles
Biology 120, Human Anatomy
Home Ec. 354, Income Management
History 231, 232, American History
Political Sc. 101, 102, American Government
Biology 121, Human Physiology



TEACHING

The college has a complete program for students interested in teaching in public or private elementary and secondary schools. Credits from Whitworth College are accepted in all forty-nine states towards teacher certification and by university graduate schools for the preparation of college teachers.

An overall grade point average of 2.25 (C) is necessary for registration in Education 337, 338, and 490, and also at least a 2.00 (C) average in each teaching field. During the junior and senior years the Teacher Certification Candidacy Committee provides a special program of guidance to students desiring certification for public school teaching. Specific Laboratory Experiences are required of all students desiring a teaching certificate.

Certification for Public School Teaching in Washington

Degree: Bachelor of Arts

Certificates: 1. Provisional General
2. Standard General

REQUIREMENTS FOR THE PROVISIONAL GENERAL CERTIFICATE

1. All Bachelor of Arts degree requirements of the college.
2. Two teaching fields commonly taught in the public schools. One of not less than 24 hours and the other of not less than 16 hours.
Teaching Fields:
 - a. Health Education
Physical Education and Recreation
 - b. English Language Arts
Speech, Drama, Literature, Library, Journalism
 - c. Foreign Language Arts
French, German, Spanish
 - d. Social Studies
Geography, Economics, History, Political Science
 - e. Science
Biological and Physical Sciences
 - f. Mathematics
 - g. Fine and Applied Arts
Art, Business, Home Economics, Music

3. 27 hours of professional requirements.

Education 210, Developmental Psychology	3 hours
Education 337, Curricular Materials & Methods (Elementary)	3 hours
Education 338, Curricular Materials & Methods (Secondary)	3 hours

 Professionalized Minor choices:
 411, 412, 413, 420, 421, 422, 423, 424, 425, 426, 431, 432, 434, 441, 442, 452 8 hours
 Some departments offer courses in methods of teaching their subjects. These may be acceptable towards partial fulfillment of professionalized minor requirements. See catalog section for the department.

Education 460, Washington State Manual	1 hour
Education 480, Individual Research	1 hour
Education 490, Directed Teaching and Observation	8 hours

 Laboratory Experiences, including two weeks of classroom observation No Credit
4. Miscellaneous requirements.

Music 231, Classroom Music; or Music 106, Music Appreciation	3 hours
Art 353, Elementary Art Teaching Methods; or Art 356, Survey of the Graphic Arts	2 hours
History 485, Washington State History	2 hours

 It is recommended that students complete the professional and miscellaneous requirements in this sequence:

Sophomore Year:

Education 210; Music 106 or 230

Junior Year:

Education 337, 338, Art 353 or 356; Laboratory Experiences

Senior Year:

Professionalized Minor; Education 460, 480, 490; and History 485



DIVISION I. FINE ARTS

The aims of the Division of Fine Arts are to advance the appreciation of art and music; to develop specific talents in this area for those who wish to become teachers or professional artists and musicians; and, to give personal enjoyment to all who desire the enrichment of the aesthetic side of life in a well-balanced liberal arts program.

A wide variety of opportunities make it possible for the student to choose the specific activity that suits his individual needs and abilities. The artist and musician alike must be equipped with sufficient technical proficiency to contribute through his profession in such a manner that the fine arts exist as a constructive force in a modern world.

ART

Mr. Koehler, Mr. Larson, Mr. Keys

The Art curriculum is organized to give a basic knowledge of principles of art and their practical application to expressions in various Art media and their relationships to everyday living.

MAJOR REQUIREMENTS

The following courses are required for a Major in Art: 101, 102, 107, 108, 125, 221, 222, 255, 355, and 440 plus 17 hours of Art electives. A student may major in **Painting** by selecting the majority of his Art electives from that area; or in **Applied Arts and Crafts** by selecting the majority of his electives from sculpture, ceramics, crafts, jewelry, etc.; or he may major in **Commercial Art** by selecting the majority of his course in electives from that area. A total of 36 hours credit in Art is required for a major.

Those planning to teach are recommended to major in **Applied Arts and Crafts**. Those planning to major in **Commercial Art** should minor in Advertising. Foreign language is recommended but not required for graduation in Art.

MINOR REQUIREMENTS

The following courses are required for a minor in Art: 101, 107, 255, and 355, plus 8 hours of electives in either Painting, Applied Arts and Crafts, or Commercial Art. Sixteen hours are required for a minor.

PRIVATE LESSONS

Private lessons with or without credit, are arranged with Mr. Herman Keys in his downtown studios at regular college rates. Many courses listed are also available through the regular Night School catalog.

ART COURSES

- 101 DRAWING I** 2 hours first semester
A study of basic perspective, function of light in the expression of form, and the development of rendering techniques.
- 102 DRAWING II** 2 hours second semester
A study of the application and use of color in the expression of light and form using various media and watercolor. Prerequisite: 101.
- 107 COMPOSITION AND VISUAL THEORY I** 2 hours first semester
A study of basic principles and theories of spatial organization and the use and function of color in all areas of Art.

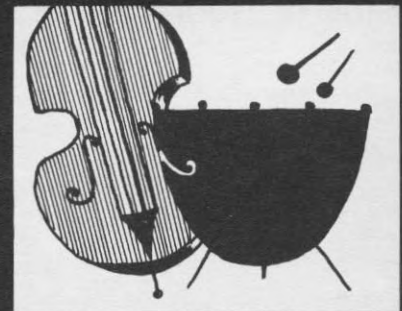
- 108 COMPOSITION AND VISUAL THEORY II** 2 hours second semester
A continuing study of basic principles especially in the third dimension.
- 125 LETTERING I** 2 hours each semester
Principles of design applied to good letter form and alphabet types, and the development of various lettering techniques.
- 126 LETTERING II** 2 hours each semester
Application of lettering techniques to poster layout design, and various types of display advertising. Prerequisite: 125.
- 221 PAINTING I** 2 hours
The development of basic skills and techniques in oil painting and a comprehensive study of color and method in painting.
- 222 PAINTING II** 2 hours
A continuation and enlargement of skills developed in Painting I.
- 236 CRAFTS I** 2 hours
Application of good principles of design to various types of craft projects. This course is open to students outside of the art department, with no prerequisites, to encourage them to develop some type of avocation.
- 241 COMMERCIAL ART I** 2 hours
The application of good principles of design to various types of layouts for advertising in newspapers, magazines, direct mail, etc.
- 242 COMMERCIAL ART II** 2 hours
The use and significance of color in advertising.
- 255 CONTEMPORARY ART APPRECIATION** 2 hours second semester
A study of all phases of modern art and the application of modern theories of design in commercial and industrial art as well as architecture, sculpture and painting. This course is an appreciation course open to all students. (Offered 1960-61 and alternate years.)
- 264 JEWELRY I** 2 hours
The development of skills in working with metal and stone cutting and setting.
- 274 CERAMICS I** 2 hours
The development of skills in the designing and producing of various types of ceramic art. Open to all students.
- 284 SCULPTURE I** 2 hours
The application of good design principles in several sculptural media, i.e., modeling in clay and plaster and carving in wood and stone. Special emphasis on three dimensional design qualities.



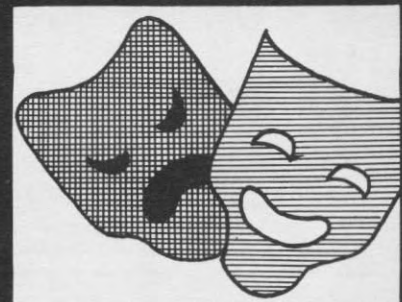
FINE ARTS ▶



- ART
- MUSIC
- SPEECH
- DRAMA



Phonetics
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extempore
DEBATE



- 301 FIGURE DRAWING I** 2 hours
Development of skill in rapid drawing of the figure from the model. Prerequisite: 101.
- 321 PAINTING III** 2 hours
A study of the problems of composition and structure with color relationships.
- 322 PAINTING IV** 2 hours
The student is given certain problems of plastic organization color sequences, and spacial relationships involved in picture making.
- 335 GRAPHICS I** 2 hours
The problems of spacial organization and design in the specific field of print making. Involves lithography, block printing, silk screen, etching.
- 341 COMMERCIAL ART III** 2 hours
Techniques in preparing illustrations suitable for commercial reproduction.
- 342 COMMERCIAL ART IV** 2 hours
Technical drawing and illustration applied to specific fields of interest to the student. This may include; production assembly illustration, fashion illustration, air brush technique, or other types of commercial illustration.
- 353 ELEMENTARY ART TEACHING METHODS** 2 hours each semester
This course is designed to show the prospective teacher, methods of organizing materials and effective ways of presenting various types of learning experiences at the elementary school level. This course meets the state requirement for certification, but it is also open to others who may be working with elementary age children in other than school situations.
- 355 WORLD HISTORY OF ART** 2 hours second semester
Survey of all the arts, from ancient times to the 20th century, and their influence on modern art expressions. Open to all students. (Offered 1959-60 and alternate years.)
- 356 SURVEY OF THE GRAPHIC ARTS** 2 hours fall semester
An appreciation course primarily designed for secondary teachers and to provide a broad base for the appreciation of all art forms and their cultural heritage. This course meets the requirement for certification on the secondary level. Open to all students.
- 364 JEWELRY II** 2 hours
Provides further activity and study in this branch of metal arts.
- 374 CERAMICS II** 2 hours
This course designed for a continued study and the development of new skills in more advanced ceramic problems.
- 384 SCULPTURE II** 2 hours
Advanced problems in three dimensional media. Primary emphasis is on building up structures in several different materials.
- 401 FIGURE DRAWING II** 2 hours
A more comprehensive study of the human figure and the relating of more than one figure to various problems in spacial organization.
- 421 PAINTING V** 2 hours
Emphasis on organizational problems involving figures.
- 422 PAINTING VI** 2 hours
Landscape is the content and form source, as well as color notation, in this course.
- 435 GRAPHICS II** 2 hours
Having previously explored several print mediums the student concentrates on some particular medium for which he has a preference.
- 440 SEMINAR** 1 hour second semester
The opportunity is provided to do individual research in various fields of art and present them to the group for discussion and evaluation. Required of all majors but open to others.
- 451, 452 PAINTING VII, VIII** 2 hours
The student concentrates on his own particular style and exploration in composition and analysis. Individual and group discussion of his work helps him in developing a sound philosophy of art and in his particular ways of expressing himself. This course is conducted on an individual basis so that the student can work a considerable time on his own.
- 464 JEWELRY III** 2 hours
Designed to allow the maximum creative effort on the part of the student who is particularly interested in this field of art expression.
- 474 CERAMICS III** 2 hours
Advanced problems are assigned in design, glazing, and firing of various ceramic pieces.
- 484 SCULPTURE III** 2 hours
Many sculptural media require considerable time to complete so this course is designed to allow individual work and instruction which will meet the particular interest of the student.

MUSIC

Mr. Johnson, Mrs. Carrel, Mr. Martin, Mr. Carlsen, Miss Heritage, Mrs. Huttenbach, Mr. Gove, Mr. Plowman, Mrs. Plowman, Mr. Plank

Provision is made for the best possible instruction and experience in all phases of music leading to active professional objectives in performance, teaching, and the ministry of church music. Attention is also given to those wishing to enrich and extend their general cultural background and to prepare for avocational contribution to the educational, religious, and cultural life of their community.

MAJOR REQUIREMENTS

Basic Curriculum

Applied music in one performing medium of which 4 must be pursued in private study, and 2 with upper division credit.....	6 hours
Ensemble. Majors must be registered for an ensemble during each semester in residence. Majors in instrumental area must elect either band or orchestra; those in choral, either chorus or choir.....	8 hours
Theory, including Theory 122, 221, 222, 325, and one of the following: 320, 426, or 428.....	13 hours
History and Literature, 361, 362.....	6 hours
Conducting, 357.....	2 hours
	<hr/> 35 hours

Piano proficiency requirement (equivalent of 2 semesters class piano, 113, 114-A)



Musical Acoustics (For description, see Physics Department.) Is recommended as a laboratory science for music majors.

Plus one of the following areas of emphasis:

1. Applied:
 - a. An additional 6 hrs. of applied credit. A minimum of 8 hrs. of the required 12 must be in private study in the major performing medium, (violin, piano, voice, etc.), 4 of which must be upper division 6 hours
 - b. At least a joint junior recital and a full senior recital
 - c. 2 hrs. of music (upper division) electives 2 hours
2. Music Education (in addition to the basic curriculum):
 - a. Professional requirements in education, (see p. 23) of which the "professionalized minor" must include the following: 2 hrs. of Mus. 333
2 hrs. from either Mus. 335, Mus. 336, Mus. 339
2 hrs. from either Mus. 340 or Mus. 346 27 hours
 - b. Miscellaneous education requirements: Art 353, Hist. 485..... 4 hours
 - c. Minimum of joint senior recital — 31 hours
3. Church Music:

In addition to the basic curriculum, Mus. 340, 377, 472, plus 2 additional hrs. of applied music (other than major performing area—piano, organ, or voice)..... 8 hours

Minimum of joint senior recital.

MINOR REQUIREMENTS

- | | |
|--|----------------|
| Applied music in one performing medium, two hours of which may be class applied..... | 4 hours |
| Ensemble | 4 hours |
| Theory, including 122 | 3 hours |
| Music History and Literature, 361 or 362..... | 3 hours |
| Electives | 4 hours |
| | <hr/> 18 hours |

MUSIC COURSES

GENERAL

- 106 MUSIC APPRECIATION** 3 hours each semester
An introduction to the literature and aesthetic principles of music. Listening to and studying of works from the various styles and media with the aim of finer appreciation and future development. For non-music majors only.
- 151 SONG LEADING** 2 hours first semester
A practical course in the fundamentals of leading songs and hymns for formal and informal singing, and the presentation of new songs and hymns. (Offered 1959-60 and alternate years.)



- 357 CONDUCTING** 2 hours first semester
Basic technique, including the use of the baton and the utilization of the left hand for expressive purposes, plus an introduction to score reading. Prerequisite: 122.

- 361, 362 MUSIC HISTORY AND LITERATURE** 3 hours first and second semesters
A survey of the development of music with emphasis on the styles of the historical periods integrated with thorough examination of scores and recordings for the purpose of developing understanding of music as an art. (Offered 1959-60 and alternate years.)

THEORY COURSES

- 121 FUNDAMENTALS OF MUSIC** 2 hours first semester
Notation, scale structure, intervals, simplest harmonic progressions, sight singing, elementary ear training. Open to non-music majors.
- 122 MUSIC THEORY** 3 hours second semester
Development of basic musicianship through ear training, sight singing, harmony, and analysis of four-part writing; triads, harmonic progression, modulations, and inverted chords. Prerequisite: 121, or permission.
- 221 MUSIC THEORY** 3 hours first semester
A continuation of 122. Nonharmonic tones, cadences, dominant seventh chords, and other chords serving dominant function. Prerequisite: 122.
- 222 MUSIC THEORY** 3 hours second semester
A continuation of 221. Study of nondominant harmony and other altered chords. Prerequisite: 221.
- 325 INSTRUMENTATION AND SCORING** 2 hours first semester
Tone quality, range, transposition, and special characteristics of orchestral and band instruments. Basic scoring concepts and actual scoring for small instrumental ensembles. Prerequisite: 122.
- 320 MUSICAL ANALYSIS** 2 hours second semester
Design and harmonic structure in music with reference to music styles, periods, and media. Prerequisite: 222. (Offered 1959-60 and alternate years.)
- 426 ORCHESTRATION** 2 hours second semester
Scoring techniques for the orchestra and other large ensembles. Prerequisite: 222 and 325. (Offered 1960-61 and alternate years.)
- 428 COMPOSITION** 2 hours second semester
Principles of composition including harmonic, melodic, and rhythmic devices as well as contrapuntal techniques through practical application. Prerequisite: 222 and 325. (Offered 1960-61 and alternate years.)



MUSIC EDUCATION COURSES

231 ELEMENTARY CLASSROOM MUSIC

3 hours second semester

Classroom procedures and material for music listening, creating, and participation in the elementary classroom. Recommended supporting electives: Music 121, 113A, or 106. For non-music teaching candidates.

333 MUSIC EDUCATION FOR THE ELEMENTARY SCHOOL

2 hours first semester

Materials and methods for directing and supervising musical activities and experiences in the first six grades. For the music major and minor.

335 STRING AND PERCUSSION INSTRUMENTS

Class Instruction and Methods 2 hours first semester

Elementary instruction and methods of teaching violin, viola, cello, bass, and the percussion instruments; course of study planning; and actual performance on the instruments.

336 WOODWIND INSTRUMENTS

Class Instruction and Methods 1 hour second semester

Elementary instruction and methods of teaching the woodwinds; course of study planning, and actual performance.

339 BRASS INSTRUMENTS

Class Instruction and Methods 1 hour second semester

Elementary instruction and methods of teaching the brass instruments; course of study planning; and actual performance.

340 CHORAL TECHNIQUES, PROBLEMS

AND MATERIALS 2 hours second semester

A study of the organization and administration of choral groups with special emphasis on the junior and senior high school program; choral problems and techniques; rehearsal procedure; the study of materials. Prerequisite: Music 357.

346 INSTRUMENTAL TECHNIQUES, PROBLEMS AND MATERIALS

2 hours second semester

A study of the organization and administration of instrumental music groups with special emphasis on public school programs; problems and techniques of instrumental conducting and rehearsal procedure; and the study of materials. Prerequisite: Music 357.

CHURCH MUSIC COURSES

377 SURVEY OF HYMNOLOGY 2 hours first semester

History of the hymn and hymn tune; types of hymns and their uses; analysis and interpretation of hymns; evaluation of standard hymnals.

472 MUSIC AND WORSHIP 2 hours second semester

The nature of worship and its significance; music as an aid to worship, order of worship, the role of the director, choir, and organist; evaluating church music.

479 CHURCH MUSIC AND FIELD LABORATORY

2 hours

Developing the music program of the church; the multiple choir program; responsibilities of the minister of music; practical experience directing a church choir.

APPLIED COURSES*

Private or class lessons in applied music are available to any student of Whitworth College, major or non-major.** (One half-hour lesson per week.)

111, 112—A, B, C, D, E, F, or G—Private Instruction

211, 212—A, B, C, D, E, F, or G—Private Instruction

311, 312—A, B, C, D, E, F, or G—Private Instruction

411, 412—A, B, C, D, E, F, or G—Private Instruction

1 hour

113, 114—A, B, or F—Class instruction in piano, voice, or organ. Two classes per week.

Enrollment limited to five students per section

1 hour

315, 316—A, B, or F—Repertoire

Performance, criticism, and discussion of major repertoire for piano, voice or organ. Admission by permission of instructor

1 hour

* A—piano; B—voice; C—strings; D—woodwinds; E—brass; F—organ; G—percussion.

** Students in the department of music are required to report all public appearances in advance to their respective instructors.

ENSEMBLE MUSIC

A student must have had at least one year of lower division credit in ensemble, choral and instrumental respectively, in order to receive upper division credit.

181, 182, 381, 382 COLLEGE CHORUS 1 hour

Open to all students of Whitworth College. Performance of choral works of all styles and periods, including the great oratorios with orchestral accompaniment.

183, 184, 383, 384 COLLEGE CHOIR 1 hour

Open to all students by audition. Representative works of the great choral literature since the 16th century from a cappella to oratorios with full symphonic accompaniment prepared for church, school and concert presentations. Prerequisite: permission.

185, 186, 385, 386 VOCAL CHAMBER MUSIC 1 hour

Open to all students by permission of instructor. Musical participation and presentation of quartets, trios, madrigals, groups, etc.

191, 192, 391, 392 COLLEGE BAND 1 hour

Open to all students of Whitworth College. Literature performed will be predominantly original works for large wind ensembles. Prerequisite: permission.

193, 194, 393, 394 COLLEGE ORCHESTRA 1 hour

Open to all students of Whitworth College. Orchestral literature from all periods is studied and performed. The orchestra accompanies the college choral groups in the presentation of oratorios. Prerequisite: permission.

195, 196, 395, 396 INSTRUMENTAL CHAMBER MUSIC

1 hour

Open to all students of Whitworth College who are interested in performing in some form of small instrumental ensemble. Prerequisite: permission.

197, 198, 397, 398 STRING SINFONIETTA 1 hour

Comprised of the string section of the college orchestra. Representative works of string orchestra literature from all periods will be studied and performed.



SPEECH AND DRAMA

Mr. Waltz, Mr. Lee, Mrs. Erway

The purpose of the Speech and Drama Department is to give the student basic training in organizing and communicating ideas that will make him a more effective individual in social and business situations; to provide cultural training in the appreciation of drama and literature; and to develop the ability to effectively interpret literature and plays.

MAJOR AND MINOR REQUIREMENTS

A major in Speech and Drama consists of at least thirty semester hours and a minor of at least sixteen semester hours. The courses will be selected after consultation with the Speech Department.

Foreign language is strongly recommended for all majors.



SPEECH AND DRAMA COURSES

110 FUNDAMENTALS OF SPEECH

2 hours each semester

A course designed to give the student development in speaking personality and powers of communication, with the aim of making the student a more effective unit in the social order. Required of each student in the freshman or sophomore year unless he has had a speech course and can demonstrate to the satisfaction of the instructor his ability to speak effectively before a group.

120 SPEECH AND DISCUSSION 2 hours each semester

This course is designed to follow 110. Parliamentary procedure, public discussion, impromptu, and extemporaneous speaking are studied and practiced with the purpose of giving the student a better understanding of and further experience in the art of expressing his ideas most effectively in social, business, and public life.

121 VOICE AND DICTION 2 hours first semester

A study of the mechanics of good voice and speech production and practical application and training in these techniques.

131 LITERARY INTERPRETATION

3 hours first semester

The aims of this course are to aid the students in comprehending the intellectual and emotional meaning of the printed page as intended by the author, and to give instruction and practice in the techniques that will enable the student to convey that meaning to others by the use of vocal and physical expression.

132 LITERARY INTERPRETATION

2 hours second semester

This course gives continuation of the work in Literary Interpretation 131, including the more careful study of dialects and some of the more difficult types of interpretative reading. Prerequisite: 131.

171, 172 STAGECRAFT AND LIGHTING

2 hours first and second semesters

The principles and practice of designing and building scenery and of stage lighting compose the basis of this course. Three or more hours of class and laboratory per week are required.

241 FUNDAMENTALS OF RADIO AND TELEVISION

2 hours first semester

A survey of radio and television broadcasting. Background material in radio and television transmission, discussion of acoustical problems, introductory information about various broadcasting systems, and the legal control of broadcasting, will be presented. The student will visit local stations. Practice in microphone technique will be incorporated. Prerequisite: 110. (Speech 131 is advised.)

242 RADIO AND TELEVISION PRODUCTION

2 hours second semester

Application of the knowledge and techniques gained in Speech 241. The student writes and delivers radio talks and speeches. Assignments are arranged in order of increasing length and difficulty. Future ministers and business men can utilize the course in preparation for radio broadcasting in their careers. Prerequisite: 241.

251, 252 SPEECH CORRECTION

2 hours first and second semesters

A survey of the nature, causes and principles of treatment of speech disorders with emphasis upon the educational and clinical aspects of the various problems covered. Recommended for education majors.

261 ARGUMENTATION, PERSUASION, AND DEBATE

3 hours first semester

A course designed to emphasize the theory and practice of persuasion. Practice in finding and evaluating evidence, construction of arguments, rebuttals and delivery in debate is stressed. Special attention is given

to the national intercollegiate debate question for analysis. The ethics of persuasion in modern society is included in the work of the course.

271, 272 MAKE-UP AND COSTUME

1-2 hours first and second semesters

A study of the theory and practice of make-up for stage and the design and construction of costumes. Members of the class will assist in all college productions where make-up and costumes are needed. Three or more hours of class and laboratory work per week.

273 INTRODUCTION TO ACTING

3 hours first semester

A study and practice of the principles of acting including vocal and bodily expression and projection, pantomime, character portrayal, stage positions and movement, and the techniques of creating and sustaining a role.

274 PRINCIPLES OF ACTING 3 hours second semester

The work in this class will be concerned with the application of the techniques of course 273 through the actual experience of the preparation of and participation in various plays. Time for rehearsals outside of the regular class periods will be required. Prerequisite: 273.

322 PLATFORM SPEAKING 2 hours second semester

A course in the more advanced forms of speech composition and presentation. Study in the selection, organization, and delivery of speech material will be stressed.

331, 332 LITERARY INTERPRETATION

2 hours first and second semesters

A study of more advanced work in interpretation and the development of repertoire for advanced speech students. Prerequisites: 131, 132.

371 INTRODUCTION TO RELIGIOUS DRAMA

2 hours first semester

The intent of this course is to give a careful study of the use of dramatic forms in religious worship and religious education work, includes consideration of objectives, sources of material, various dramatic forms, procedures for different situations, and some experimental work.

372 RELIGIOUS DRAMA PRODUCTION

2 hours second semester

Students who have completed 371 may take this course in experimental and production procedures in Religious Drama. The presentation of religious plays and dramatic programs both on and off the campus will be included in this work.

421 HISTORY AND CRITICISM OF EUROPEAN PUBLIC ADDRESS

2 hours first semester

A study of ancient and modern oratorical criticism

and methods. A semester project in oratory and the preparation of an oration for delivery will be included in the work of the course.

422 HISTORY AND CRITICISM OF AMERICAN PUBLIC ADDRESS

2 hours second semester

A study of modern oratorical criticism and methods practiced in the United States. A semester project in oratory and the preparation of an oration for delivery will be included in the work of the course.

471, 472 PLAY DIRECTION

3 hours first and second semesters

The purpose of this course is to gain a basic knowledge of the best procedures in directing plays through study of authorities and by application of this knowledge in the selection, casting, directing and presenting of workshop plays. It is designed for those who may be called on to take charge of such work in school, church, or community. Prerequisites: 273, 274.

481 PROJECTS IN SPEECH AND DRAMA

1-3 hours first semester

For students who are majoring or minoring in speech. Students will be given opportunity to work on individual projects in which they have special interest. Hours and credits are to be arranged with the instructor. Offered on request.

482 SEMINAR IN SPEECH AND SPEECH RESEARCH

2 hours second semester

Review of the field of speech in preparation for the comprehensive examination and integration of work taken in the various fields of speech. Required of all speech majors of junior-senior rank. (Offered 1960-61 and alternate years.)

483 SPEECH FOR THE CLASSROOM TEACHER

3 hours each semester

Emphasis is placed on the prospective teacher's own competency as a speaker and the understanding and practice of speech activities useful in teaching. Methods of utilizing public speaking, discussion, story telling, oral reading, dramatics, and speech correction procedures in the teaching situation are presented.

130, 230, 330, 430 PRIVATE LESSONS

1 hour

Individual instruction in interpretation and speech may be arranged with the instructor. Fee: \$50 per semester. One hour credit is given for one thirty-minute lesson a week per semester. Students who present a senior recital are expected to take private lessons.

160, 260, 360, 460 FORENSIC DEBATE

1 hour

Intercollegiate debate and forensic speaking including discussion, after-dinner speeches, radio, oral interpretation, extempore, oratory, etc. Prerequisite: Permission of instructor.





DINING HALL



MUSIC BUILDING

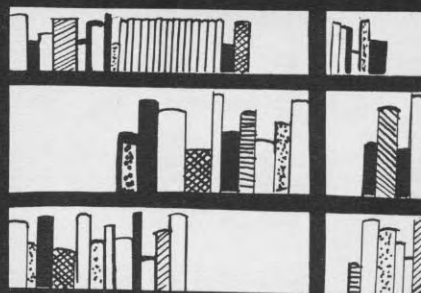


McEACHRAN—Administration

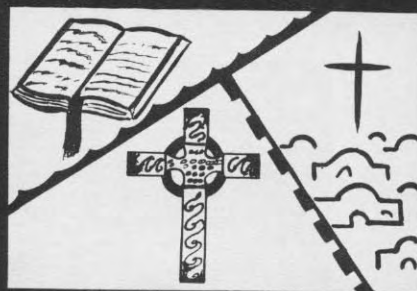
HUMANITIES

- ENGLISH
- LIBRARY
- SCIENCE
- LANGUAGES
- RELIGION
- PHILOSOPHY

NOUN
vowels
VERB
PHRASES



français
GREEK
Deutsche
ESPAÑOL



σοφία
Socrates

DIVISION II. HUMANITIES

The purposes of the Humanities Division are: to acquaint the student with the development of world civilization through the ages and with our philosophical and literary heritage; to challenge the student to creative thought and endeavor in the humanities; and to help the student to formulate an intelligent Christian philosophy of life.

ENGLISH

Dr. Simpson, Miss Whitten, Mr. Wurster, Mrs. Donner, Mrs. Jennings

This department develops competence in the use of the English language and promotes enjoyment of good literature and discrimination in the choice of reading. It also gives attention to the acquisition of a general knowledge of the major epochs of our cultural history, along with a thorough acquaintance with representative master works in each epoch.

MAJOR REQUIREMENTS

A major in English consists of 24 semester hours beyond English 101 and 102. At least 12 hours must be at the upper division level. English 496 and 14 hours of foreign language or other language arts are required. Not later than the beginning of the junior year, the student and his major adviser plan a complete program of course work designed to aid the student in achieving the above objectives.

Supporting courses in such areas as speech, history, philosophy, art, and music are included in the program.

MINOR REQUIREMENTS

A minor in English consists of 16 semester hours beyond 101 and 102.

Those who plan to teach English in the public schools should consult a department adviser for course recommendations. English 386 and 487 are required.

During the orientation period all freshmen who feel that their background in English is especially good may elect to take a special examination. Those who have already reached the objectives for English 101 will be permitted to substitute other work in English language or literature. A similar examination based on the objectives of English 102 will be given at the end of the first semester. The students who need additional help in language will be assigned to the appropriate portions of English A.

A. ENGLISH FUNDAMENTALS

Each semester no credit

Emphasis upon fundamentals of grammar and spelling for those who need special aid in meeting the language competence requirements.

101, 102 ENGLISH COMPOSITION

3 hours each semester

A review in the mechanics of the English language and more advanced work in reading, written composition, logic in expression, library research, and word study. During the second semester the student will read extensively in various types of literature in order to increase his appreciation of good writing and to improve his own written expression. An accelerated section meeting two days a week is offered for students who have ranked high on the orientation tests.

105, 106 ENGLISH FOR SPECIAL STUDENTS

4 hours each semester

The purpose of this course is to help students who have learned first a language other than English to become better acquainted with the English language, its vocabulary, idioms, and structure. Others may be assigned to this course upon recommendation of the English staff. This course takes the place of English 101 and 102.

202 READING IMPROVEMENT

2 hours second semester

A laboratory course for sophomores, juniors, and seniors who desire to improve their comprehension and increase their speed in reading.

231, 232 SURVEY OF ENGLISH LITERATURE

3 hours each semester

Although it gives the student a comprehensive view of the whole field of English literature and acquaints him with literary types and movements, this course emphasizes the great writers.

233, 234 LITERATURE OF THE WESTERN WORLD

3 hours each semester

Ancient and modern masterpieces of literature and their relationship to our cultural heritage.

236 BUSINESS ENGLISH

2 hours each semester

See Economics 236.

238 APPRECIATION OF POETRY

2 hours first semester

A study of poems and poetic forms with the aim of increasing appreciation of this type of literature. (Offered 1959-60 and alternate years.)

241, 242 SURVEY OF AMERICAN LITERATURE

3 hours each semester

A study of the growth of our literature from colonial origins to the present time.

245 CREATIVE WRITING

2 hours first semester

A course devoted to the study and use of techniques in such forms as the poem, the essay, the short story, and the drama.

247 REPORT WRITING

2 hours second semester

Experience and instruction in effective handling of various types of technical and non-technical reports.

350 CHAUCER AND HIS TIME

3 hours first semester

A study of representative works in medieval literature with special emphasis on the works of Chaucer. (Offered 1960-61 and alternate years.)

351 LITERATURE OF THE EASTERN WORLD

3 hours second semester

Representative masterpieces of the major Asiatic civilizations. (Offered 1959-60 and alternate years.)

352 THE ELIZABETHAN ERA

3 hours second semester

Representative works of the English Renaissance from More to Jonson. (Offered 1960-61 and alternate years.)

354 SHAKESPEARE

3 hours first semester

A study of the life of Shakespeare, his sonnets, and his plays; special emphasis on the great tragedies.

355 MILTON

2 hours second semester

A study of Milton's life and times and important writings to understand his religious and social ideals, as well as to appreciate his major poetical works. (Offered 1960-61 and alternate years.)

356 THE SEVENTEENTH CENTURY

3 hours second semester

Principal English writers from the death of Elizabeth to the Restoration, excluding Milton. (Offered 1959-60 and alternate years.)

357 THE AGE OF REASON

3 hours first semester

Neo-classical English literature from Dryden to Johnson. (Offered 1960-61 and alternate years.)

- 358 THE ROMANTIC ERA** 3 hours second semester
Development of English romanticism in the late eighteenth and early nineteenth centuries. Special emphasis upon Blake, Burns, Wordsworth, Coleridge, Byron, Shelley, and Keats. (Offered 1960-61 and alternate years.)
- 359 THE VICTORIAN AGE** 3 hours first semester
The principal British poetry and non-fiction prose of the period from 1830 to about 1890. The relationship to American and Continental literature of that time is stressed. (Offered 1959-60 and alternate years.)
- 362 THE BIBLE AS LITERATURE** 2 hours second semester
A study of the Bible in English translation with special emphasis upon an appreciation of its literary qualities, and a brief survey of the influence of the King James Version upon subsequent literature in English. Also offered as Bible 62. (Offered 1959-60 and alternate years.)
- 363 THE BEGINNINGS OF THE NOVEL** 3 hours first semester
An historical and critical study of the origins of prose fiction and its development to the time of the Bronte sisters. (Offered 1960-61 and alternate years.)
- 364 THE RISE OF REALISM IN THE NOVEL** 3 hours second semester
The novel from Eliot to Conrad. American and Continental novels will be included. (Offered 1960-61 and alternate years.)
- 365 THE TWENTIETH-CENTURY NOVEL** 3 hours first semester
A critical analysis of representative English, Continental and American novels from 1900 to 1920. (Offered 1959-60 and alternate years.)
- 367 TWENTIETH CENTURY DRAMA** 2 hours second semester
A study of outstanding plays both American and Continental from 1900 to the present. (Offered 1959-60 and alternate years.)
- 370 CONTEMPORARY AMERICAN FICTION** 3 hours second semester
Novels and short stories beginning with the expatriate movement. (Offered 1959-60 and alternate years.)
- 371 THE RENAISSANCE** 3 hours first semester
A study of the expressions of the Renaissance spirit in literature, history, science, philosophy, art and music. Taught by a committee of instructors representing those areas. Must be taken concurrently with History 371. (Offered 1959-60 and alternate years.)
- 373 TWENTIETH-CENTURY POETRY** 3 hours second semester
Investigation of the ideas and methods of leading British and American poets from 1900 to the present. (Offered 1959-60 and alternate years.)



- 374 GREAT CHRISTIAN LITERATURE** 2 hours second semester
A study of masterpieces from the early Christian era to the present time, not including the Bible. The history of the Christian tradition in literature is studied and certain selections are read.
- 386 DEVELOPMENT AND STRUCTURE OF MODERN ENGLISH** 2 hours first semester
The growth of our language and its current form. A study of the changes in the spelling and meaning of words and in grammatical usage, with some insight into the laws governing such changes. Highly recommended for prospective teachers of English.
- 487 SPECIAL METHODS OF TEACHING ENGLISH IN SECONDARY SCHOOLS** 2 hours first semester
Methods of teaching grammar, rhetoric and literature will be presented. Highly recommended for prospective teachers of English.
- 496 LITERARY CRITICISM** 2 hours second semester
An appraisal of the materials in the English major in the light of basic critical dicta from Aristotle to the New Criticism.

LANGUAGES

Dr. Henning, Mr. Yates, Mrs. Birnbaums

ANCIENT GREEK

The student is provided with a thorough knowledge of the Grammar and Syntax of New Testament Greek which facilitates the reading of the New Testament in the original.

MINOR REQUIREMENTS

A minor in Greek consists of 16 hours.

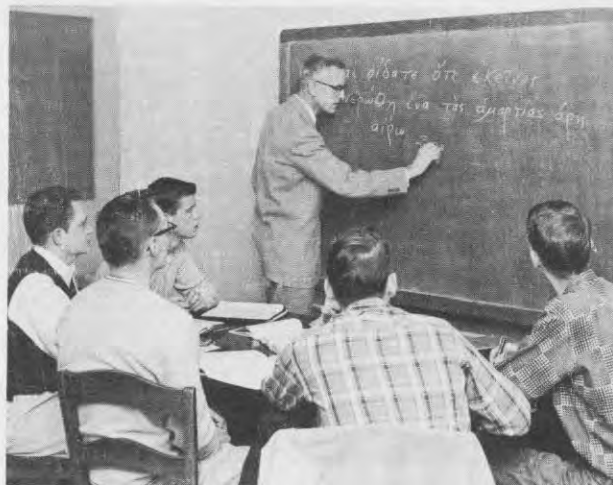
201, 202 NEW TESTAMENT GREEK

4 hours each semester
Grammar. Emphasis is on forms. Vocabulary.

360 MARK 3 hours first semester
Vocabulary. Continuation of Grammar.

361 GALATIANS 3 hours second semester
Vocabulary. Continuation of Grammar.

498, 499 SELECTED READINGS 1 hour each semester
Translation of various books of the New Testament.



MODERN

The general aim of the study of modern foreign languages embraces both practical and cultural considerations. Modern languages are of immediate practical use to students preparing for careers in government service, foreign trade, teaching, missionary service, and for those interested in international relations and travel. Language-centered positions open, include translator, interpreter, secretary with various government agencies, clerk with foreign branches of petroleum, shipping, and mineral companies and banks. Students in other college departments will find in foreign scientific literature a valuable source for information and research work. The skill even to read a foreign language provides a new and direct approach to the cultural values of other nations through such mediums as literature and travel.

MAJOR AND MINOR REQUIREMENTS

A major or minor is offered in Spanish and in French, a minor in German. A major consists of 26 semester hours in one language, including courses 101-102. A minor consists of 18 hours in one language, including courses 101-102. A student who presents high school units in the same language and is thereby admitted to course 201 will complete a major of 22 hours or a minor of 14 hours. Students who do not plan to teach a language may select a major combining two languages. In every case the major must include at least 10 hours in courses numbered above 300 and the minor 4 hours. French 301, 302, 303, 304 or Spanish 301, 302, 303, 304 are required for a major in French or in Spanish. Courses in American, English, and World literatures are recommended for majors.

Prerequisites: Students with one year of high school language or one semester of college language enroll the second semester in course 102; students with two years of high school language or one year of college language enroll in course 201. Other special cases must take a placement test. Courses 101-202 or the equivalent are prerequisite for all upper division courses.

THE LANGUAGE LABORATORY: These facilities are provided for the student as a further aid toward progress and mastery of the language. Here the student may check his faults and progress by means of records and tapes and by taped reproductions of his own voice. While these audio aids are used in the classroom to some extent, every language student should plan to make use of these facilities in supplementary study. Students whose pronunciation or progress is unsatisfactory are required to spend up to one hour per week in the Laboratory.

FRENCH COURSES

101, 102 ELEMENTARY FRENCH

4 hours each semester

Fundamentals of pronunciation and grammar, vocabulary building, composition, reading of graded texts, conversation in French from the start.

201, 202 INTERMEDIATE FRENCH

3 hours each semester

Thorough grammar review with more advanced work in conversation and composition, and both intensive and rapid reading of texts. Special attention will be given to those needing foreign language for medicine or science.

301, 302 SURVEY OF FRENCH LITERATURE

2 hours each semester

Historical development of French Literature, with readings and discussion of representative masterpieces from the Middle Ages to the 20th century. Required for major.

303, 304 ADVANCED FRENCH COMPOSITION AND CONVERSATION

2 hours each semester

Based on short texts or vocabularies of the different areas of modern life in order to help the student to more fluent expression in spoken and written French. Required for major.

305, 306 DIRECTED FRENCH READING

2-4 hours

Reading and reports of works selected in one field of special interest: poetry, short story, essay, or prose.

401 MODERN FRENCH NOVEL

2-4 hours

The novel since Romanticism, including the schools of Realism, Naturalism, and the contemporary period.

402 MODERN FRENCH DRAMA

2-4 hours

The drama since Romanticism, including the various schools of the 19th and 20th centuries.

GERMAN COURSES

101, 102 ELEMENTARY GERMAN

4 hours each semester

German phonetics, essentials of grammar, acquisition of vocabulary, elementary composition. Conversation from the very beginning, later on reading of graded texts.

201, 202 INTERMEDIATE GERMAN

3 hours each semester

Thorough grammar review with more advanced work in conversation and composition, and both intensive and rapid reading of texts. Special attention to specialized fields such as science.

301, 302 SURVEY OF GERMAN LITERATURE

2 hours each semester

Historical development of German Literature, with readings and discussion of representative masterpieces from the Middle Ages to the 20th century.

305, 306 DIRECTED GERMAN READING

2-4 hours

Reading and reports of works selected in one field of special interest: novel, short story, poetry, essay, drama.

SPANISH COURSES

101, 102 ELEMENTARY SPANISH

4 hours each semester

Fundamentals of pronunciation and grammar, vocabulary building, composition, reading of graded texts, conversation in Spanish from the start.

201, 202 INTERMEDIATE SPANISH

3 hours each semester

Thorough grammar review and more advanced work in conversation and composition, with both intensive and rapid reading of texts.

301, 302 SURVEY OF SPANISH LITERATURE

2 hours each semester

Historical development of Spanish Literature, with readings and discussion of representative masterpieces from the Middle Ages to the 20th century. Required for major.

303, 304 ADVANCED SPANISH COMPOSITION AND CONVERSATION

2 hours each semester

Based on vocabularies and texts dealing with the different areas of modern life to help the student to more fluent expression in spoken and written Spanish. Required for major.

401 MODERN SPANISH NOVEL

2-4 hours

The novel since Romanticism with emphasis upon regionalism.

402 MODERN SPANISH DRAMA

2-4 hours

Spanish stage since Romanticism with emphasis upon social drama.

- 403 SPANISH-AMERICAN LITERATURE** 2-4 hours
Readings from outstanding 19th and 20th century authors of the Spanish-American countries. Discussion on historical and literary development.



LIBRARY SCIENCE

Miss Pearson

- 470 CATALOGING AND CLASSIFICATION** 3 hours summer session on demand
An introductory course with special application to the high school library. The laboratory work provides for practical experience in cataloging a wide variety of books. (For seniors and fifth year students.)
- 471 ORGANIZATION AND ADMINISTRATION** 2 hours summer session on demand
A course designed to give a thorough knowledge of the organization and administration of the high school library. It includes a study of the function of the high school library, cooperation with departments, business practice, budgets, records, charging, mending, accessioning, equipment, library staff, attendance and programming, circulation and publicity. Laboratory work in the college library. (For seniors and fifth year students.)

PHILOSOPHY

Mr. Yates, Dr. Redmond

Philosophy attempts to answer questions pertaining to man's relation to God, the universe and his fellowman. By a critical examination of such efforts through the centuries, the aim of this department is to provide for the student a working philosophy of life.

MAJOR AND MINOR REQUIREMENTS

A major consists of 24 hours, a minor, 15. Required courses for either a major or minor are: 201, 330, 331.

Foreign language is compulsory for all majors. Work in the following departments is recommended: English, History, and Psychology.

PHILOSOPHY COURSES

- 201 INTRODUCTION TO PHILOSOPHY** 3 hours each semester
An introduction to the various systems. This course is a prerequisite to all other courses in philosophy, except 378.

- 330 HISTORY OF ANCIENT AND MEDIEVAL PHILOSOPHY** 3 hours second semester
From Thales to Ockam.
- 331 HISTORY OF MODERN PHILOSOPHY** 3 hours first semester
From Descartes to Dewey. Prerequisite: Philosophy 330.
- 350 PHILOSOPHY OF RELIGION** 3 hours
A general survey of the field with emphasis on the Christian interpretation of life and the universe. Prerequisite: Philosophy 201. (Offered 1959-60.)
- 351 ETHICS** 3 hours
A comparative study of the classical theories. (Offered 1960-61.)
- 367 AMERICAN PHILOSOPHY** 3 hours
A survey of American philosophical thought from colonial times to the present, with special attention to Edwards, Peirce, Royce, James, Santayana and Dewey.
- 378 LOGIC** 3 hours
Formal deductive reasoning. (Offered 1959-60.)
- 379 PHILOSOPHY OF HISTORY** 3 hours
The relation of man to historical movements.
- 430 SEMINAR IN THE PHILOSOPHY OF AUGUSTINE** 2 hours
An intensive study of the philosophical writings of Augustine, and his influence of the history of thought.
- 440 SEMINAR IN MODERN BRITISH PHILOSOPHERS OF RELIGION** 2 hours
A study of the most significant contributions of modern British thinkers to the philosophy of religion, with special attention to William Temple and F. R. Tennant.
- 441 PHILOSOPHY OF EDUCATION** 2 hours first semester
For course description see Education 441.
- 498, 499 DIRECTED READINGS AND RESEARCH** 1-3 hours each semester
Research by senior students. Credit given depends upon the quantity and quality of work done in the investigation of philosophical problems.



RELIGION

*Dr. Dilworth, Dr. Redmond, Miss Jenkins,
Miss Smith, Miss Baldwin*

The aim of the Department of Religion is to provide each student with an opportunity to achieve a general understanding of the Bible and of evangelical Protestant doctrine and to equip him for mature Christian living. The Department seeks, also, to provide those preliminary disciplines which will prepare the student for graduate training in the field of Church vocations.

Freshmen are expected to take Religion 102 or 112 during their first year. Religion 475 is recommended for all upper division students.

MAJOR REQUIREMENTS IN BIBLE LITERATURE

A major in Bible Literature consists of 30 semester hours including the 8 required for graduation. The accompanying minor may not be in Christian Education or Greek. Required courses are:

Group I

Religion 102, 231, 232, 243, 249 or 355 or 356, 475, 489.

Group II

Religion 245.

Group III

Religion 354 and 477.

Additional requirements are Foreign Language, a semester of literature, Philosophy 231, and History, either courses 101, 102, and 372, or 353, 354, and 372.

MINOR REQUIREMENTS IN BIBLE LITERATURE

A minor in Bible Literature consists of 20 semester hours including the 8 required for graduation, 5 hours of which may be in Groups II and III. Required courses are Religion 102, 231, 232, 243, and 475.

MAJOR REQUIREMENTS IN CHRISTIAN EDUCATION

A major in Christian Education offers training toward professional or volunteer service in churches, schools, and on national or foreign mission fields. It or its equivalent is a prerequisite for candidacy for a Master of Arts degree in the field of Christian Education. The major consists of 24 semester hours beyond the 8 required for graduation, 16 of which must be in Group II. Required courses are:

Group I

Religion 231, 232, 243, 475.

Group II

Religion 115, 124, 240, 244, 371, 480.

Group III

Religion 477.

Other required courses are: Foreign Language, Psychology 232, a semester of Literature, and Music 477. In addition, two of the following options are required:

- (1) Religious Drama: Speech 103, 230, and 231.
- (2) Recreational Leadership: Recreational Leadership 236 or 239, 245 or 367, and 350.
- (3) Secretarial Science: Sufficient course work in Elementary Typing to meet the minimum standards, and Secretarial Science 105-106 or its equivalent determined by a proficiency test taken during the first year of residence.
- (4) Sacred Music: A minor in Sacred Music is recommended and will be accepted as one of the options.

MINOR REQUIREMENTS IN CHRISTIAN EDUCATION

A minor in Christian Education consists of 14 semester hours beyond the 8 required for graduation, 5 of which may be in Groups I and III. Required courses are: Religion 115, 124, 371, 480.

A related minor is offered in the Journalism Department under the title, "Religious Journalism."

Graduate work is offered in Christian Education leading to the Master of Arts degree.

GROUP I, BIBLE LITERATURE

102 THE GOSPEL ACCORDING TO MARK

2 hours each semester

An inductive study of the Gospel of Mark designed to introduce the student to method in Bible study.

112 INTRODUCTION TO THE NEW TESTAMENT

2 hours each semester

A survey of the background and contents of the major books of the New Testament.

231 INTRODUCTION TO THE OLD TESTAMENT

2 hours each semester

A survey of the historical background and contents of the major books of the Old Testament.

232 LIFE AND TEACHINGS OF JESUS

3 hours first semester

A study of the Synoptic Gospels with emphasis on the timeless teachings of Jesus.

242 THE GOSPEL AND EPISTLES OF JOHN

2 hours second semester

A study of the Johanne Literature and its relation to the other New Testament writings.

243 THE NEW TESTAMENT CHURCH

3 hours second semester

A study of the development of the Christian Church based on the Acts and Epistles of Paul.

249 EPISTLE TO THE HEBREWS

2 hours first semester

A study of the New Testament book which is a basic bridge between the Old and New Testaments, emphasizing Christ's complete superiority to the provisions of the Old Testament. Prerequisite: 231. (Offered 1959-1960.)

355 THE CORINTHIAN LETTERS

2 hours first semester

An expository study of Paul's letters to the church at Corinth and their application to issues in the Church today. (Offered 1960-1961.)

356 ROMANS

2 hours first semester

An analytical study of the Epistle to the Romans and its logical presentation of basic Christian doctrines. (Offered 1959-1960.)

366 JEREMIAH

2 hours second semester

A detailed study of the book of Jeremiah, the prophet, his world, and his message for our day. (Offered 1960-61.)

475 FUNDAMENTALS OF THE CHRISTIAN FAITH

3 hours second semester

A systematic study of the basic doctrines of Protestant Christianity.

489 PROPHETS FOR TODAY

3 hours first semester

A study of the Hebrew prophets with special emphasis on their message for our day.

490 RELIGIOUS SEMINAR

Hours to be arranged

A course in individual research with personal conferences with the instructor. Open to seniors and graduate students only.

GROUP II, CHRISTIAN EDUCATION**115 INTRODUCTION TO CHRISTIAN EDUCATION**

2 hours first semester

A general survey of the field of Christian Education, its historical development, basic principles, aims, and objectives. (Offered 1959-1960.)

124 METHODS OF CHRISTIAN EDUCATION

3 hours second semester

A systematic study of modern educational methods applied to the field of Christian Education, with supervised field work.

240 CHRISTIAN EDUCATION OF CHILDREN

2 hours first semester

A study of the basic needs, interests, capacities, and problems of children, and the development of an adequate program for the local church at each age level. Prerequisite: Psychology 210.

244 YOUTH AND THE CHURCH

2 hours second semester

A study of the church program designed to meet the needs of adolescents. Prerequisite: Psychology 210. (Offered 1959-1960.)

245 USE OF THE BIBLE IN CHRISTIAN EDUCATION

2 hours second semester

A practical course in Bible study methods and teaching procedures applied to each age level, for use in the local Church School. (Offered 1960-1961.)

363 CHRISTIAN EDUCATION OF ADULTS

2 hours second semester

A study of the needs, problems, program and methods of adult education in the local church. (Offered 1960-1961.)

371 ORGANIZATION AND ADMINISTRATION

3 hours second semester

A survey of the current practices in organization and administration of the educational program of the local church. (Offered 1960-1961.)

480 FIELD PROBLEMS IN CHRISTIAN EDUCATION

3 hours first semester

A seminar course dealing with specific problems in Christian Education and supervised work in the student's chosen field. (Seniors only.)

483 WORSHIP IN CHRISTIAN EDUCATION

2 hours first semester

A study of the history, psychology, and meaning of worship with emphasis on aids to guiding worship experiences for all age levels. The course includes field trips to churches representing various religious traditions. (Offered 1959-1960.)

491 CHRISTIAN EDUCATION SEMINAR

Hours to be arranged

A course in individual research with personal conferences with instructor. Open to seniors and graduates.

GROUP III, RELATED COURSES IN RELIGION**354 HISTORICAL AND GEOGRAPHICAL BACKGROUND OF THE BIBLE**

2 hours first semester

A course designed to give an understanding of the physical and historical features of the lands which were the setting for the Bible. (Offered 1960-1961.)

362 THE BIBLE AS LITERATURE

2 hours second semester

A study of the Bible in English translation with emphasis upon an appreciation of its literary qualities, and a brief survey of the influence of the King James Version upon subsequent literature in English. (Offered 1959-1960.)

372 NON-CHRISTIAN RELIGIONS

2 hours first semester

A study of the major non-Christian faiths of the world and their relationship to Christianity. (Offered 1959-1960.)

373 SURVEY OF CHURCH HISTORY

2 hours first semester

A survey of the historical development of the Christian Church from the time of Christ until the present, related to contemporary church life. (Offered 1960-1961.)

374 HISTORY OF THE AMERICAN CHURCH

2 hours second semester

A survey of the development of Christianity in America, including the rise of denominations, sects, cults, and the ecumenical movement, with emphasis upon the history and the organization of the Presbyterian Church. (Offered 1960-1961.)

477 PSYCHOLOGY OF RELIGIOUS EXPERIENCE

2 hours second semester

Systematic study of religious experience from the psychological viewpoint. Experiences such as worship, conversion and prayer, are discussed in the light of psychological concepts and insights.

488 PHILOSOPHY OF RELIGION

3 hours first semester

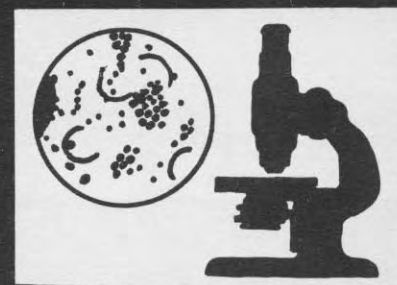
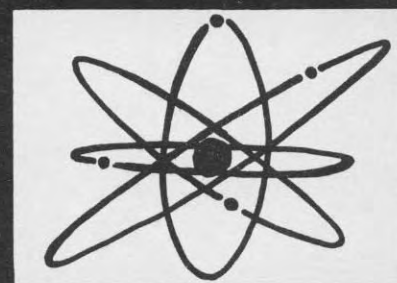
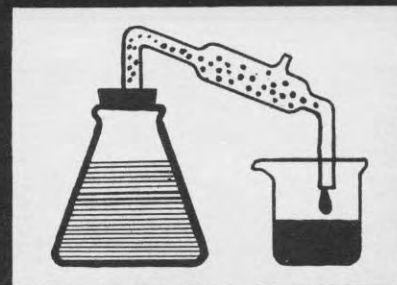
See course description, Philosophy 350.





BASIC SCIENCES

- CHEMISTRY
- PHYSICS
- BIOLOGY
- HOME ECONOMICS
- NURSING
- MATHEMATICS
- ENGINEERING



$$x = \frac{b \pm \sqrt{4ac \pm b^2}}{2a}$$

DIVISION III. NATURAL SCIENCES

The Natural Science Division integrates the work of the various science departments. It acquaints the students with the scientific method as a procedure for arriving at truth, with special emphasis upon its application in the various fields of the division. The student receives preparation in science so he may take his place as a member of a cultured society.

BASIC SCIENCE MAJOR

In order to satisfy the requirements of many students who desire a broader education than that allowed by department majors, the major in basic sciences has been planned. This requires ten semester hours in each of the departments of Biology, Chemistry, and Physics, with ten hours of upper division credit in one of those fields. Modern Language and Mathematics are recommended. A minor must be chosen from some other division than that of the Sciences.

BIOLOGY

Dr. Alder, Mrs. Fick, Mrs. Gray

Biology attempts to make students fully appreciative of the beauty and uniqueness of organization in the plant and animal world. It prepares students to teach the biological sciences in the grades and high school and also prepares them for graduate work in the field of biology. Students receive instruction so they may enter a variety of professional fields including medicine, dentistry, medical technology, nursing, education, osteopathy, optometry, and others.

MAJOR REQUIREMENTS

A major in Biology consists of 28 semester hours selected from Biology 101, 102, 103, 111, 112, 120, 121, 350, 352, 355, 361, 363, 400 or 401. Geology 130 may also be used. A major also requires 10 semester hours of General Inorganic Chemistry. Courses in organic chemistry, General Physics, and a year of mathematics are desirable. A wide choice in biology courses is permitted to fit the needs in the different fields of interest. For those going out to teach biology in high schools we recommend Biology 102, 103, 111, 120, 355, 363, 400, 401 and Geology 130.

MINOR REQUIREMENTS

A minor consists of 16 semester hours with a wide range of selection from the courses offered. Majors in Nursing Education will select their minor from Biology 112, 120, 121, 352, 355, 361, 363 or by permission other courses may be substituted.

BIOLOGY COURSES

- 101 GENERAL BOTANY** 4 hours first semester
Structure and functions of roots, stems, leaves, and seeds. The practical aspects of botany are stressed along with fundamental biological processes. Three lectures and one two hour laboratory period.
- 102 GENERAL BOTANY** 4 hours second semester
Structure and relationships of the major plant groups. Three lectures and one two hour laboratory period.

- 103 FLORA OF THE REGION** 4 hours second semester
A study of the native wild flowers around Spokane and collecting, mounting, and classifying methods. Much of the laboratory time will be spent in the field. Three lectures and one two-hour laboratory period.
- 104, 105 GENERAL BIOLOGY** 4 hours each semester
A course designed to integrate life processes in plants and animals. Structure, function, reproduction and the evolution of organisms will be stressed. Four lectures.
- 106 BACTERIOLOGY** 3 or 4 hours second semester
An introduction to the biology of micro-organisms. Medical and public health aspects are emphasized. Three lectures and three hours of laboratory.
- 107 ANATOMY AND PHYSIOLOGY** 5 hours first semester
The study of the general structure and functions of human bodies through mammalian dissection, charts, models, and human skeleton. This course is designed to meet the needs of nursing and home economics students. Four lectures and three hours of laboratory.
- 111 GENERAL ZOOLOGY** 4 hours first semester
This is a study of the biology of the invertebrates. Three lectures and one two-hour laboratory period.
- 112 GENERAL ZOOLOGY** 4 hours second semester
A study of the biology of the chordates, biological principles, animals in relation to environment, inheritance, and animal behavior. Three lectures and one two-hour laboratory period.
- 120 HUMAN ANATOMY** 4 hours first semester
A study is made of the structure and general plan of the human body. Demonstrations, charts, models, and the human skeleton are used in the laboratory. An embalmed doubly injected cat is dissected. Three lectures and one two-hour laboratory period.
- 121 HUMAN PHYSIOLOGY** 4 hours second semester
The circulatory, respiratory, digestive, uro-genital, endocrine, and neuro-muscular systems are studied. Three lectures and one three-hour laboratory period. Prerequisite: Biology 107, 112, or 120.
- 138 OUTDOOR WORKSHOP** 2 hours summer
The purpose of the course will be to give practice in organizing studies of outdoor subjects. Examples of topics are: flowers, leaves, stems, roots, fruits, sex, birds, nests, rivers, erosion, clouds, insects, mammals, mountain formation, etc.
- 350 COMPARATIVE VERTEBRATE ANATOMY** 4 hours first semester
This is a detailed study of the anatomy of representative chordates, with most of the laboratory time spent on the anatomy of shark, amphibian, and mammal. Prerequisite: Biology 107, 112, or 120. Three lectures and one two-hour laboratory period. (Offered 1959-60 and alternate years.)
- 352 VERTEBRATE EMBRYOLOGY** 4 hours first semester
The development of certain vertebrates from fertilization of the egg to completion of organogenesis is considered. Most of the laboratory work is devoted to the examination of chick and pig embryos. Prerequisite: Biology 101, 112, or 120. Three lectures and one two-hour laboratory period. (Offered in 1960-61 and alternate years.)
- 355 EUGENICS** 2 hours second semester
A study of the betterment of the "human race." Genetic and sociological aspects will be discussed and integrated. An introductory course in biology is recommended. Two lectures. (Offered in 1960-61 and alternate years.)

361 HISTOLOGY 2 hours first semester

A microscopic study of cells, tissues and systems of vertebrates, especially mammals. Structure, function, and reproduction are coordinated. Prerequisite: Biology 107, 112, or 120. One lecture and three hours of laboratory. (Offered 1960-61 and alternate years.)

363 GENETICS 3 hours second semester

A study of the laws and principles governing heredity with application to plants, animals, and man. Three lectures: Prerequisites: Biology 101, 102, 103, 111, 112, or 120.

400 ADVANCED BIOLOGICAL PROBLEMS

Hours to be arranged

This course is designed to offer advanced students an opportunity to strengthen their major. Assigned work on special topics may receive credit under this course number; it may include additional reading or advanced laboratory investigation in fields not covered by courses listed in this catalog. Prerequisites: One year of upper division courses in the department.

401 THESIS Hours to be arranged

Reviews of recent literature on present day problems in biology to be integrated with historical relationships by means of conferences and the preparation of a thesis. This course or Biology 400 required of all senior students majoring in biology. One or two hours of credit.

**CHEMISTRY**

Dr. Brathoude, Dr. Johnston, Dr. Bocksch

The objectives of this department are to inculcate a knowledge of the basic laws and theories of chemistry in such a way that the student will be able to use and apply them in his living, to give the student an understanding of the many applications of chemical principles in industry, and to awaken the student to the possibilities of further study in chemistry by giving him a glimpse of its unexplored fields.

The Department of Chemistry offers courses which provide two curricula leading to the degrees of Bachelor of Arts and Bachelor of Science: an elective curriculum provides a basic introduction to chemical science and allows a wide choice of electives in other fields, and a prescribed curriculum which permits an intensive study of chemistry and related sciences in preparation for a professional scientific career or graduate study.

MAJOR REQUIREMENTS FOR BACHELOR OF ARTS

Twenty-four hours of chemistry, including Chemistry 111 or 113, 114, 138, 331, 337, 341, 347, 361 or 362 plus 4 hours of any 300 or 400 series chemistry courses. Also required are: Physics 111, 211; Mathematics 113, 115, 116; 4 hours of biology; Psychology 101; Philosophy 201 or 378; and 3 hours of history.

MAJOR REQUIREMENTS FOR BACHELOR OF SCIENCE

Forty-two hours of Natural Science including Chemistry 111 or 113, 114, 138, 331, 337, 341, 342, 347, 348, 361, 362, 366, 367, 490 and 11 approved elective hours from the following group: Chemistry 432, 438, 444, 446, 452, 462, 480, 490; 300 or 400 series courses in mathematics; Geology 129, 130, and any biology courses. Also required are: Physics 111, 211 and 222; Mathematics 113, 115, 116, 255; Philosophy 201 or 378; Psychology 101; 3 hours of history; and a reading knowledge of scientific German, French or Russian.

Students majoring for a Bachelor of Arts or a Bachelor of Science Degree may choose natural science electives from the following categories:

- Advanced Mathematics above the Calculus
- Biology
- Geology
- Differential Equations
- Biochemistry
- Instrumental Analysis
- Organic Qualitative Analysis
- Research
- Seminar
- Theoretical Chemistry
- Theoretical Organic Chemistry

MAJOR REQUIREMENTS FOR TEACHERS AND PRE-MEDS

Education students may elect the Bachelor of Arts in chemistry curriculum to satisfy the major requirement for the general teaching certificate. The requirements for a Pre-Med student are the same as for teachers.

MINOR REQUIREMENTS

A minor in chemistry consists of at least 16 hours, including Chemistry 111, 114, 138, 331, 337 and 341.

CHEMISTRY COURSES**100 PRINCIPLES OF PHYSICAL SCIENCE**

3 hours each semester

An integrated course in the physical sciences, designed to provide a basis of understanding in some of the phases of astronomy, geology, mathematics, physics and chemistry for students not specializing in science and for science majors without the prerequisites for 111. Physics 100 must be taken concurrently. Three lectures a week.

101 INTRODUCTORY CHEMISTRY

2 hours first semester

A survey of the basic principles of chemistry primarily for students of nursing. Two lectures per week.

105 GENERAL CHEMISTRY LABORATORY

1 hour each semester

Fundamental techniques in the use of chemical equipment to obtain semi-quantitative yields and investigation of physico-chemical problems by the analysis of unknowns where possible. Usually taken concurrently with Chemistry 100, 111 or 113. Students having completed high school chemistry may be excused from this course upon their request and demonstration of sufficient knowledge of laboratory techniques via a qualifying examination given during registration week. One three-hour laboratory period per week.

107 INTRODUCTORY CHEMISTRY LABORATORY

1 hour first semester

An introduction to chemical laboratory techniques through an investigation and analysis of unknowns. Primarily for nursing students concurrently enrolled in 101. One two-hour laboratory period per week.

111 PHYSICAL SCIENCE CONCEPTS

3 hours first semester

An integrated course in the physical sciences to take the place of the traditional first semester General Chemistry course and, with Physics 111, to take the place of part of the sophomore General Physics course. By presenting topics according to their place necessary for an understanding of our physical world rather than according to academic headings, and by minimizing repetition usually present in the traditional courses, the course is able to present, in one semester,

a study of some of the basic concepts of astronomy, geology, mathematics, physics and chemistry. This provides a full basis of understanding of several phases of physical science in an interesting and enlightening manner without encumbering the student with many specific facts. It is hoped that the major student with this general background, will be in a better position to later assimilate the necessary specific details and facts of his major field. This course, with Physics 111 which must be taken concurrently, is for transfer purposes equivalent to three hours of General Chemistry and two hours of General Physics. Chemistry 105 should be taken concurrently by those who are deficient in a high school laboratory course. Five lectures per week including Physics 111. Prerequisite: High school physics or chemistry and Algebra III, an acceptable score on the college entrance examination, or permission.

113 GENERAL CHEMISTRY

3 hours first semester

The fundamental principles of chemistry, including a brief survey of organic. The atomic structure of matter is emphasized in relation to chemical valence. This course may be taken as a one semester terminal course or as preparation for Chemistry 114. Usually offered as a special or evening course. Three lectures per week.

114 GENERAL CHEMISTRY

3 hours second semester

Inorganic and introductory concepts, including equilibrium reactions and the theories useful in Qualitative Analysis. This course or its equivalent is a prerequisite for all chemistry courses numbered above 300. Three lectures per week. Prerequisite: 111, 113 or permission.

138 QUALITATIVE ANALYSIS LABORATORY

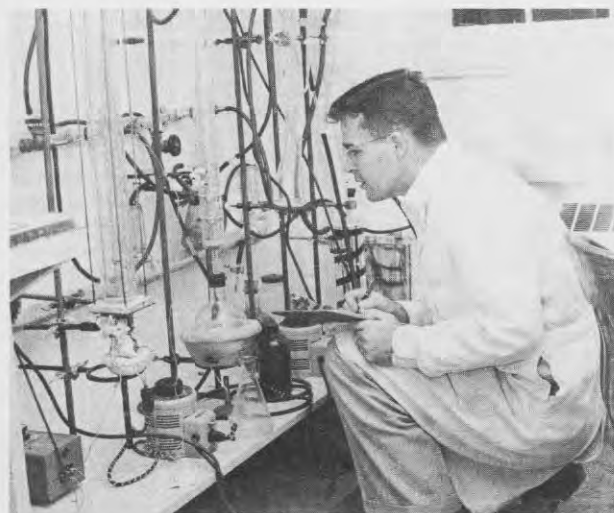
2 hours second semester

An elementary laboratory course in the analysis of common cations and anions, in addition to selected physico-chemical analysis. Prerequisite: 105 or high school chemistry and an acceptable score on the entrance examination or permission. Two two-hour laboratory periods per week.

142 INTRODUCTORY ORGANIC CHEMISTRY

2 hours first semester

An introduction to Organic Chemistry for students of nursing, home economics and others who want only one semester of organic chemistry. Two lectures per week. Prerequisite: 100, 101, 111 or 113 or permission.



148 INTRODUCTORY ORGANIC CHEMISTRY**LABORATORY** 1 hour second semester

A laboratory course correlated with Chemistry 142. One two-hour laboratory period per week. Prerequisite: 105 or 107 or permission.

331 QUANTITATIVE ANALYSIS 2 hours first semester

Theory of gravimetric and volumetric analysis. Designed for majors who will continue with Instrumental Analysis and pre-medical and other students who want only one semester of analysis. Two lectures per week. Prerequisite: 114.

337 QUANTITATIVE ANALYSIS LABORATORY

2 hours first semester

Gravimetric, volumetric, colorimetric and electrochemical analysis. Two three-hour periods per week. Taken concurrently with Chemistry 331. Prerequisite: 138.

341 ORGANIC CHEMISTRY 3 hours first semester

A study of aliphatic and aromatic compounds. For students who want only one semester of comprehensive study of organic chemistry. Also for those who desire to continue with Chemistry 342. Three lectures per week. Prerequisite: 114.

342 ORGANIC CHEMISTRY 3 hours second semester

A study of aromatic compounds and polyfunctional groups. Three lectures per week. Prerequisite: 341.

347 ORGANIC CHEMISTRY LABORATORY

2 hours first semester

Organic synthesis. Usually taken concurrently with Chemistry 341. Two three-hour laboratory periods per week. Prerequisite: 138.

348 ORGANIC CHEMISTRY LABORATORY

2 hours second semester

Organic synthesis and qualitative analysis. Two three-hour laboratory periods per week. Prerequisite: 347.

361 PHYSICAL CHEMISTRY 3 hours first semester

An introductory study of the first, second and third laws of thermodynamics, calorimetry, equations of state, Gibbs and Helmholtz functions, kinetic theory of gases, chemical equilibrium, Boltzmann distribution law and the equipartition of energy. Three lectures per week. Prerequisite: 331 and 337, which may be taken concurrently, Physics 222, Mathematics 255, or permission.

362 PHYSICAL CHEMISTRY 3 hours second semester

A study of the theory of chemical equilibrium, electrochemistry, chemical kinetics, atomic and molecular spectra and structure, radioactivity and nuclear energy concepts. May be taken as a one-semester course without having enrolled in Chemistry 361 only with the permission of the instructor. Three lectures per week. Prerequisite: 331 and 337, Physics 222, Math. 255, or permission.

366 PHYSICAL CHEMISTRY LABORATORY

2 hours second semester

A course to familiarize the student with physicochemical equipment and techniques and to initiate independent thinking as applied to physical chemistry experiments. Two three-hour laboratory periods per week. Prerequisite: 337 and 361.

367 PHYSICAL CHEMISTRY LABORATORY

2 hours first semester

Development of independent thinking on physical chemical research problems under only general supervision. Six hours of laboratory time per week. Prerequisite: 366 or permission.

432 INSTRUMENTAL ANALYSIS

2 hours second semester

Mechanism of some complex analysis and an introduction to instrumental analysis. Electronic circuits of common scientific equipment. Two lectures per week. Prerequisite: 331 and 337 or permission. (Offered 1960-61 and alternate years.)

438 INSTRUMENTAL ANALYSIS LABORATORY

1 hour second semester

Laboratory analysis with electrical and optical instruments. One three-hour laboratory period per week. Usually taken concurrently with Chemistry 432. Prerequisite: 331 and 337 or permission. (Offered 1960-61 and alternate years.)

444 ORGANIC MECHANISMS 2 hours second semester

Mechanism and electronic interpretation of organic reactions. Two lectures per week. Prerequisite: 342. By permission, 342 may be taken concurrently. (Offered 1960-61 and alternate years.)

446 ORGANIC QUALITATIVE ANALYSIS

2 hours second semester

Identification and characterization of simple organic compounds. Prerequisite: 347. Two three-hour laboratory periods per week. (Offered 1959-1960 and alternate years.)

452 INTRODUCTION TO BIOCHEMISTRY

2 hours second semester

A survey of the basic principles of biochemistry including the chemistry and metabolism of the themes of modern biochemical analysis. Prerequisite: 341. (Offered on demand.)

462 THEORETICAL CHEMISTRY

3 hours second semester

Energy-level systems and selection rules of nuclear, atomic and molecular aggregates of elementary particles; nature of the chemical bond from both the valence bond and molecular orbital approaches; electronegativity and resonance; the nature of various force fields and structures of crystals. Three lectures per week. Prerequisite: 361 and 362 which may be taken concurrently or permission. (Offered 1959-1960 and alternate years.)

480 SEMINAR

1 hour each semester

Discussion and literature research of current scientific problems; attendance at local scientific meetings. Prerequisite: permission.

490 RESEARCH 1-5 hours each semester

For qualified science students to engage in research problems currently being investigated in the Chemistry Department. Prerequisite: permission.

ENGINEERING

Mr. Acock, Dr. Brathovde, Mr. Carlson, Mr. Wilson

Instruction in engineering, including chemical, civil, electrical, mechanical, etc., is the application to specific problems of the principles and skills of mathematics, physics, chemistry, and other sciences. (See Engineering curriculum on page 20.)



SCIENCE BUILDING

ENGINEERING COURSES**101 ENGINEERING PROBLEMS** 2 hours first semester

Training in methods of analyzing and solving simple engineering problems. Practice in clear thinking and arrangement of work using graphical and mathematical methods.

102 ENGINEERING ORIENTATION

1 hour second semester

Activities; professional ideals, responsibilities and ethics; employment in the various types and functions of engineering.

103 ENGINEERING DRAWING 2 hours first semester

Use of instruments, lettering, orthographic and isometric projection, sections, sketching.

104 PLANE SURVEYING 2 hours second semester

Use and care of instruments. Simple surveying problems in field and office. Prerequisite: Engr. 103.

201 STATICS 2 hours first semester

Fundamental principles of statics. Mathematical and graphical analysis of simple force systems. Prerequisite: Engr. 101, 103, and Math. 113.

202 ELECTRIC, MAGNETIC AND ELECTRONIC CIRCUITS 3 hours second semester

The elements of electrical engineering. Prerequisites: Engr. 101, and Physics 212, or may be taken concurrently.

203 APPLIED DESCRIPTIVE GEOMETRY

2 hours first semester

Includes point, line and plane problems, intersections and developments. Prerequisite: Engr. 103.

204 DYNAMICS

3 hours second semester

Equations of motion. The effects of forces acting on rigid bodies in motion. Prerequisite: Engr. 201.

301 ALTERNATING AND DIRECT CURRENT—ELECTRONIC CIRCUITS AND EQUIPMENT I

3 hours first semester

Basic concepts of electrical equipment and circuits. Prerequisite: Engr. 202.

302 ALTERNATING AND DIRECT CURRENT—ELECTRONIC CIRCUITS AND EQUIPMENT II

3 hours second semester

Application of the concepts and principles developed in Engr. 301, to analysis of circuits and equipment using alternating, and direct, current sources. Prerequisite: Engr. 301.

303 MECHANICS OF MATERIALS

2 hours first semester

Analysis of the various stresses in machine and structural members. Prerequisite: Engr. 204 or with permission.

304 MATERIALS OF ENGINEERING

2 hours second semester

Properties, fabrication, uses, and testing of the principal engineering materials. Prerequisite: Engr. 303.

311 ENGINEERING ANALYSIS 3 hours first semester

Mathematical and physical principles in engineering analysis; checking validity, limits, and approximations. Prerequisite: Third year standing in engineering.



GEOLOGY

Dr. Alder

The following courses in geology are offered for students in civil, mining, and metallurgical engineering.

GEOLOGY COURSES

130 INTRODUCTION TO HISTORICAL GEOLOGY

4 hours second semester

Characteristics of the geological eras and periods will be studied with special emphasis on the Pacific Northwest. Must be preceded by a four hour course in biology or by permission. Three lectures and one two-hour laboratory period a week.

129 PHYSICAL GEOLOGY 4 hours first semester

The structural topographic features of the earth and the processes of their formation. Three lectures and one laboratory period. (On demand.)

HOME ECONOMICS

Miss Boppell, Mrs. Robertson

Training in Home Economics prepares students for various professions, including homemaking. The courses offered are planned primarily for those who desire a general knowledge of Home Economics, and for those who plan to teach Home Economics. They may well serve as a preparation for more specialized training in the various related professions.

A student may work toward a Vocational Certificate during her fifth year of training at either the University of Washington or the State College of Washington.

MAJOR REQUIREMENTS

A major in Home Economics consists of 30 semester hours. Required courses are: 101, 113, 115, 117, 118, 231, 232, 236, 351, 361, 366, 490. Also required are: one year of a foreign language, (or two in high school), Art 107, Chemistry 100, Physics 100 and 217, Biology 107, Psychology 101, and Sociology 233. Courses in philosophy, bacteriology, organic chemistry, and consumer economics are strongly advised.

Courses recommended for electives are: Home Economics 208, 238, 354, 467, 470, Biology 105, and Philosophy 201.

Recommended for Freshman Year:

Home Economics 101, 113, 115, 117, 118
Chemistry 100, 341
Physical Education activity, 160
English 101, 102
Bible
Psychology 101

MINOR REQUIREMENTS

A minor in Home Economics consists of sixteen semester hours. Required courses are: 113, 115, 117, 210, 351, and 490.

GENERAL COURSES

101 INTRODUCTION TO HOME ECONOMICS

1 hour first semester

Introduces students to opportunities in this field. History of Home Economics. Assists in adjustment to college life.

470 METHODS OF TEACHING HOME ECONOMICS

2 hours first semester

The problems involved in teaching Home Economics; objectives, organization and presentation of subject matter; teaching materials; equipment. (Offered 1961-62 and alternate years.)

475 DIRECTED READING IN HOME ECONOMICS

Credit to be arranged

Intensive reading in some selected field of Home Economics. For upper division majors by permission.

482 WORK EXPERIENCE

2-4 hours

Practical experience for seniors under the direction of a professional home economist. Hours and credit to be arranged in conference with the instructor.

TEXTILES AND CLOTHING

113 CLOTHING SELECTION 2 hours first semester

Selection of clothing, considering design principles as applied to clothing; the effect of figure, personality, personal coloring on clothing choices; the clothing inventory, the clothing budget and wardrobe planning.

115 TEXTILES

1 hour first semester

A study of textile fibers and fabrics; a basis for selection of materials for clothing and home furnishings.

117 CLOTHING CONSTRUCTION

3 hours first semester

Fundamental processes of clothing construction, the using of the commercial pattern, fitting of garments.

118 TAILORING

3 hours second semester

A continuation of Home Economics 115. Construction of garments requiring more advanced methods than in the preceding course; tailoring techniques. Prerequisite: 115.

467 WEAVING

2 hours first semester

Basic techniques used in weaving, and practical experience in weaving on two-harness looms. (Offered 1960-61 and alternate years.)

FOODS AND NUTRITION

108 NUTRITION FOR NURSES

2 hours second semester

Special emphasis is given in this course to the principles of normal nutrition and the principles and procedures in the care and preparation of foods; planned to aid the student as an individual, as a nurse, and as a teacher of health.

210 FOOD PREPARATION FOR NON-MAJORS

2 hours second semester

A survey course for students who are not Home Economics majors or minors; includes the principles of food selection, preparation and serving. No prerequisite. (Offered 1959-60 and alternate years.)

231 FOOD PREPARATION

3 hours first semester

A study of the fundamental principles involved in the selection, preparation, and serving of foods. Prerequisite: Chemistry 100.

232 ADVANCED FOOD PREPARATION

3 hours second semester

A continuation of Home Economics 231; includes the planning, preparation, and serving of meals; food costs and marketing. Prerequisite: 231.

361 NUTRITION

3 hours first semester

A study of the components of the normal diet—carbohydrates, fats, proteins, minerals, and vitamins. Emphasis is given to quantitative as well as qualitative aspects; relation of food to health. (Offered 1960-61 and alternate years.)



HOME ADMINISTRATION

208 HOME NURSING

2 hours second semester

To help homemakers and potential homemakers become more skilled and more resourceful in caring for the sick in their homes; includes the care of mothers and babies and helpless and aged members of the family. (Offered 1959-60 and alternate years.)

236 HOME FURNISHINGS

3 hours second semester

A study of the principles involved in the decorating and furnishing of the home. (Offered 1960-61 and alternate years.)

238 CONSUMER ECONOMICS

2 hours second semester

See Economics 238 for a description of this course. (Offered 1960-61 and alternate years.)

351 HOME MANAGEMENT

2 hours first semester

The organization and management of time and labor, and the selection of equipment for the home. (Offered 1959-60 and alternate years.)

354 INCOME MANAGEMENT

2 hours second semester

Planning personal and family spending; problems of choice-making; guides and standards for dividing the income and planning expenditures; consideration of the family's long-time savings and investment program. (Offered 1959-60 and alternate years.)

366 CHILD DEVELOPMENT

3 hours second semester

Needs, care and development of the child from infancy through pre-school years; includes a study of nutrition for children. (Offered 1960-61 and alternate years.)

490 HOME MANAGEMENT HOUSE

Credit to be arranged

Residence in Home Management House. Experience in managing the house, meal planning and preparation, buying and record-keeping, group relationships. Time and money management emphasized. (Fee.)

MATHEMATICS

Mr. Carlson, Mr. Acock

The program in the Department of Mathematics is designed to meet the needs of liberal arts students, science students, and those who plan to teach on the elementary or secondary level. Major instruction in mathematics prepares students for graduate work in the field of their choice.

MAJOR REQUIREMENTS FOR BACHELOR OF ARTS

A major in Mathematics who seeks the B.A. degree will be required to complete a minimum of 28 hours including 113, 115, 116, 255, 262, and at least 4 additional hours in courses whose catalog numbers exceed 299.

Those who select the field of Mathematics in fulfillment of the requirements for the General Teaching Certificate in the State of Washington are advised to take courses 245, 246, 353, 359, and 360 in addition to the specific courses listed under the requirements of majors.

It is strongly recommended that majors take two years of foreign language, these to be selected from German or French.

MAJOR REQUIREMENTS FOR BACHELOR OF SCIENCE

A major in Mathematics who seeks the B.S. degree will be required to complete a minimum of 36 hours, including courses 113, 115, 116, 255, 262 and at least 13 additional hours in courses whose catalog numbers exceed 299. The course Physics 382 may be used to count as 3 of these 13 hours.

MINOR REQUIREMENTS

A minor in Mathematics consists of a minimum of 20 hours including courses 113, 115, 116, 255, and 262.

Mathematics may be selected to fulfill a part of the Graduation Requirements in Science and Mathematics. High school solid geometry and trigonometry are recommended for prospective majors and minors.

MATHEMATICS COURSES

104 INTERMEDIATE ALGEBRA

3 hours first semester

This course is offered for all students who have had only one year of high school algebra and for those desiring more adequate preparation for College Algebra.

Contents: Study of algebraic multiplication, division, factoring, special products, fractions, exponents, radicals, binomial theorem, linear equations, systems of equations and introduction to determinants.

107 ELEMENTARY MATHEMATICS

3 hours first semester

Study of the development of our number system, historical development of arithmetical processes, systematic study of college arithmetic, introductory algebraic methods, slide rule, and other computational aides.

111, 112 FUNDAMENTALS OF MATHEMATICS

2 hours each semester

This course is designed to meet the elementary needs of students in introductory science courses, business administration, secretarial science, statistics, and other fields in which a thorough knowledge of the fundamentals of the mathematical processes is required or desirable. Arithmetical operations, applications of geometry, ratio and proportion, percentage, linear equations, logarithms, use of the slide rule, and introduction to the trigonometry of the right triangle are included. No credit for one term only.

113 PLANE TRIGONOMETRY 2 hours first semester

This is a systematic study of the trigonometry functions, trigonometric equations and identities and inverse functions. Applications will be made to the fields of plane surveying, navigation, and physics. This course is a prerequisite to Physics 211 and Mathematics 116.

Note: Students should take 113 and 115 simultaneously.

115 COLLEGE ALGEBRA 3 hours first semester

Study of functions, coordinates, quadratic equations, systems of equations, determinants, cubic equations, logarithms, infinite series, mathematics of investment, probability and complex numbers.

Note: Students should take 115 and 113 simultaneously.

116 ANALYTIC GEOMETRY AND CALCULUS

5 hours second semester

A unified approach to the study of analytic geometry and the calculus with emphasis upon concepts of variable, constant, function, limits, coordinate systems. Applications of the calculus to algebraic equations and simple integration. Prerequisites: Mathematics 113 and 115.

222 MATHEMATICS OF FINANCE

3 hours second semester

A mathematical study of compound interest, annuities, sinking funds, valuation of bonds, life insurance, and others. Prerequisite: Mathematics 112 or its equivalent, or special permission.

245, 246 MODERN CONCEPTS IN MATHEMATICS

3 hours each semester

The contents of this course include the following topics: Introductory logic, "truth tables", applications to switching circuits, study of sets and sub-sets, elementary vectors and matrices, linear programming and applications to the physical and behavioral science problems. This course is of particular value to majors in the behavioral and social science fields as well as to those in the physical and biological sciences.

255 CALCULUS AND ANALYTIC GEOMETRY

5 hours each semester

A continuation of the subject matter of Mathematics 116 with applications to centroids, moment of inertia, and problems of physics. The course includes a study of the conic sections, transcendental functions, maxima, minima, three dimensional analytic geometry, multiple integrals, and elementary differential equations.

Both courses are essential to an adequate preparation in this field of study. Prerequisite: Mathematics 116.

262 DIFFERENTIAL EQUATIONS

3 hours second semester

A semester course including ordinary and partial differential equations with applications to geometry and physics. Prerequisite: Mathematics 255.

352 SOLID ANALYTIC GEOMETRY

2 hours first semester

Coordinates of space, planes, lines, determinants, matrices, surfaces, curves and transformations.

353 COLLEGE GEOMETRY 2 hours second semester

An introductory course including a study of the properties of the triangle and the circle. Recommended to those students who are preparing to teach mathematics.

359, 360 THEORY OF EQUATIONS**2 hours each semester**

A study of the properties of higher equations, graphs and complex numbers. Solution of equations by Newton's and Horner's methods, determinants, systems of linear equations, symmetric functions and discriminants. Prerequisite: Mathematics 255.

363, 364 INTRODUCTION TO MODERN ALGEBRA**3 hours each semester**

A course designed to acquaint the undergraduate student with some of the modern algebraic concepts such as sets, groups, fields, rings, matrices, system of linear equations, linear transformations, quadratic forms, vector spaces, with applications to analytic geometry. Although the calculus is not an absolute prerequisite, it is desirable that the student should have that mathematical maturity which such study should produce.

382 THEORETICAL MECHANICS**3 hours second semester**

A mathematical treatment of the mechanics of particles, solids, and introduction to wave mechanics. Prerequisites: Physics 212, and Mathematics 262 or 416. Credit may apply toward either mathematics or physics. Given on demand.

409 VECTOR ANALYSIS Three hours second semester**415, 416 ADVANCED CALCULUS****3 hours each semester**

A year course embracing an introductory study of explicit and implicit functions, Beta, Gamma and Bessel functions, vectors, line, surface and space integrals, elliptic integrals, ordinary and partial differential equations, functions of a complex variable. Prerequisite: Mathematics 255 and 262.

**WHITWORTH-DEACONESS AFFILIATION
IN PROFESSIONAL NURSING**

*Mrs. Robertson, Mrs. Corona,
Miss Flowers, Mrs. Swope*

PHILOSOPHY OF THE NURSING PROGRAM

Professional nursing requires study and experiences leading to proficiency in comprehensive nursing service. Abilities in such service are developed through understanding of basic social and physical sciences and thorough mastery of nursing skills and techniques.

OBJECTIVES OF THE DEPARTMENT

The Nursing Education Department aims to promote in its students:

1. Understanding of the biological sciences as they apply to bodily functions and to disease conditions.
2. Knowledge and ability to apply principles of the physical sciences and nutrition to care of the patient.
3. Knowledge and ability to integrate the basic concepts of the social sciences to their application in understanding the patient and his family and their needs.
4. Understanding and application of communicative skills as they relate to patients, their families and to professional co-workers.
5. Completion, by graduate registered nurses who wish to work for a degree, of a program of social sciences, liberal arts and advanced nursing courses to supplement their basic training.
6. Growth and well-rounded development of the student, as a person, with capabilities, needs and responsibilities of her own.
7. Spiritual development of the student with emphasis on special opportunities and responsibilities of Christian nurses.

**MISCELLANEOUS REQUIREMENTS
FOR A MAJOR IN NURSING**

The following courses are required for a major in Nursing: Sociology 111, 112, 241; Nursing 497, 499; Psychology 210 or 240, 468; Chemistry 113, 114; Physical Education 114; Electives in liberal arts, 9 hours.

MINOR REQUIREMENTS

Sixteen hours are required for a minor. Choices may be made from the following three fields. Requirements for each field are:

Biology 120, 121, 105
Psychology 324
Sociology 353 or 233, 371 or 374

CURRICULUM OF THE BASIC DEGREE PROGRAM IN NURSING

FIRST YEAR—(See Pre-Professional Curricula p. 22.)

SECOND YEAR—

Fall Semester	Hours
Nurs. 101, Nursing Fundamentals	3
Psych. 241, Social Psychology	3
Bible, Elective	3
P.E. 114, Body Mechanics	1
Minor, Elective	3
Hist., Elective	3
	16

Two weeks vacation in December

Spring Semester	Hours
Nurs. 102, Nursing Fundamentals	3
Biol. 105, Microbiology	3
Home Ec. 108, Nutrition for Nurses	2
Minor, Elective	3
Art or Music, Elective	3
P.E., Elective	1
	15

One week vacation Spring

SUMMER TERM—See Basic Three-year Curriculum.

THIRD YEAR—Nursing courses are the same as for Basic Three-year Curriculum.

FOURTH YEAR—

Ninth Semester	Hours
Nurs. 497, Introduction to Public Health Nursing	3
Nurs. 499, Methods of Clinical Instruction	3
Psych. 468, Theory of Counseling and Guidance ..	2
Minor, Electives	3
Upper Division, Electives	3
	14

Substitutions may be made at the recommendation of the Director of the Nursing Department.

It is hoped that by the Fall Semester 1959 there will be a public health nursing sequence with field experience.

BASIC THREE-YEAR CURRICULUM WITH TENTATIVE ROTATION PLAN

Fall Semester (21 weeks—includes 1 week orientation and 2 weeks vacation)		Hours
Biol. 107, Anatomy and Physiology		5
Chem. 101, Chemistry		3
Bible, Elective		2
Eng. 101, Composition		3
P.E. 122, Body Mechanics		1
Nurs. 101, Nursing Fundamentals		3
		17

Spring Semester (18 weeks—including 1 week vacation)		Hours
Psych. 101, General Psychology		3
Soc. 101, Introduction to Sociology		2
Eng. 102, Composition		3
Biology 105, Microbiology		3
Home Ec. 108, Nutrition for Nurses		2
P.E., Elective		1
Nurs. 102, Nursing Fundamentals		3
		17

Summer Term (16 weeks including 1 week vacation)		
Nurs. 241, Medical-Surgical I		6
Fall Term (12 weeks)		
Nurs. 242, Medical-Surgical II		6
Winter Term (12 weeks)		
Nurs. 263, Maternal and Child Health I		6
Spring Term (12 weeks)		
Nurs. 264, Maternal and Child Health II		6
Summer Term (16 weeks including 4 weeks vacation)		
Nurs. 353, Medical-Surgical III		6
Fall Term (12 Weeks)		
Nurs. 495, Administrative Nursing		6
Winter Term (12 weeks)		
Nurs. 453, Medical-Surgical Nursing IV		6
Spring Term (12 weeks)		
Nurs. 250, 251, Psychiatric Nursing (U. of Washington)		6½
Summer Term (13½ weeks including 4 weeks vacation)		
Nurs. 493, Medical-Surgical V		5

DEACONESS GRADUATE NURSE PROGRAM

Graduate nurse students must meet regular graduation requirements plus final semester as outlined under Basic Degree Program.

WHITWORTH-TRANSFER GRADUATE NURSE PROGRAM

Graduate nurses shall take the National League for Nursing Graduate Nurse Qualifying Examination to determine their Professional Nurse level. Any deficiencies demonstrated in that examination must be made up as part of the requirements for graduation.

College requirements as to subjects and hours must be met. Forty-five hours will be credited for completion of a school of nursing program meeting League requirements. Pre-professional and any general college requirements will also be credited as for other transfer students. For those meeting minimum requirements the usual Whitworth program would be the following:

FIRST AND SECOND SEMESTER AS FOR PRE-NURSING (Waive Physical Education)		
Third Semester		Hours
Soc. 241, Social Psychology		3
Psy. 468, Theory of Counseling and Guidance ..		2
Nurs. 499, Methods of Clinical Instruction		3
Bible, Elective		2
Upper Div., Electives		7
		17
Fourth Semester		Hours
Psy. 210, Developmental Psych.		3
Soc. 362, Urban Sociology		2
Nurs. 497, Introduction to Public Health Nursing		3
Upper Div., Electives		7
		15
Fifth Semester		Hours
Electives		16

NURSING COURSES

101 NURSING FUNDAMENTALS

3 hours first semester, first year

Designed to orient the student to the background, underlying principles and skills of nursing. Emphasis is placed on development and adaptation of the student to the profession. Introduction to history of nursing and diet therapy is included.

102 NURSING FUNDAMENTALS

3 hours second semester, first year

Continuation course providing for instruction in broader concepts of meeting personal, therapeutic, and health education needs of the patient. Introduction to Pharmacology is included.

241 MEDICAL-SURGICAL I

6 hours first or second year

Introduction to the nursing care of the patient having medical and/or surgical treatment. Included in the course are the basic principles of cause, clinical manifestations, treatment, rehabilitation and prevention of common diseases.

242 MEDICAL-SURGICAL II

6 hours first or second year

Continued attention is given to diet therapy, pharmacology, history of nursing, and community health aspects. In addition, instruction is given in operating room procedures, recovery, and I.V. therapy.

250, 251 PSYCHIATRIC NURSING

6½ hours second or third year

University of Washington affiliation. Elementary psychiatric nursing and mental health used in the nursing care of mentally ill patients, including special therapies and rehabilitation programs. This experience is obtained at Northern State Hospital, Sedro Woolley, Washington.

263 MATERNAL AND CHILD HEALTH I

6 hours first or second year

OBSTETRIC NURSING—A study of human reproduction, nursing care of the premature and newborn infant, and of the obstetrical patient prenatal, parturition, and puerperium. Emphasis is placed on planning for and care of newborn baby as well as relationships of the family as a whole. Field experiences in prenatal care are provided.

264 MATERNAL AND CHILD HEALTH II

6 hours first or second year

NURSING CARE OF CHILDREN—Study in the understanding of growth and development of the normal child from infancy through adolescence as well as the exceptional child. Consideration is given to the principles and techniques of guidance of the healthy child as well as the sick child.

353 MEDICAL-SURGICAL III

6 hours second year

Continuation of Medical-Surgical I and II. Included are clinical experiences specifically designed to relate the patient care on the ward with the operative procedure, laboratory tests, X-ray examinations and diet therapy.

453 MEDICAL-SURGICAL IV

6 hours second or third year

Includes three areas as follows:

A. Introduction to the effect of, and emergency care in civilian emergencies. Lectures and discussions on first aid, nursing care under stress circumstances and poison control.

B. Further emphasis on rehabilitation, community concepts of nursing and geriatric nursing. Experience obtained through an affiliation with Sharon Arms Convalescent Home.

C. Experience and instruction to provide basic principles which apply in communicable disease technique, physical and mental comfort for patients with long-term illness and participation in program of patient education. Provides means to acquire appreciation of Tuberculosis as a community health problem and methods of controlling it. Experience provided at Veterans Administration Hospital at Walla Walla, Washington.

495 ADMINISTRATIVE NURSING

6 hours third year

Designed to give some understanding of, and beginning skill in assuming the responsibilities of the professional nurse for team leadership and taking charge of the floor evenings and nights and assisting the head nurse on days.

493 MEDICAL-SURGICAL V

5 hours

Advanced study of medical and surgical problems, encouraging independent study through investigation techniques; collecting, analyzing and interpreting data; evaluating outcomes and presenting study. Professional adjustments integrated with History of Nursing to emphasize contemporary movements in nursing education, professional organizations, opportunities in nursing and adjustments associated with graduate professional nursing practice.

497 INTRODUCTION TO PUBLIC HEALTH NURSING

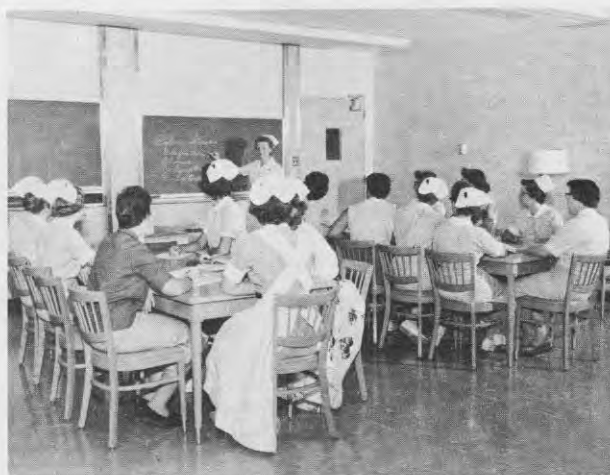
3 hours each semester

A presentation of the place of the nurse in the total public health program including duties, skills and services of the nurse in relation to the patient in his home, in clinics and schools.

499 METHODS OF CLINICAL INSTRUCTION

3 hours each semester

Study of the nurse as an assistant clinical instructor including the teaching-learning process, curriculum study and evaluation. A beginning level of experience is provided by field work during the second half of the semester at Deaconess Hospital with weekly seminar classes on Campus.



PHYSICS

Mr. Wilson

Physics courses are planned for three groups of students, those seeking a general education, those who wish to teach science in the elementary or secondary schools, those who wish to prepare for teaching in college, and for those who wish to engage in industrial physics or graduate study.

General physics is the minimum preparation for those intending to do advanced work in engineering, medicine, dentistry, nursing, chemistry, or biology. Courses in physics are also recommended for all candidates for the B.A. and B.S. degrees.

MAJOR REQUIREMENTS FOR
BACHELOR OF ARTS

Twenty-eight hours are required for a major. Required courses are: Physics 111, 211, 212, 326, 357, and 358.

MAJOR REQUIREMENTS FOR
BACHELOR OF SCIENCE

Twenty-eight hours are required supported by mathematics through the calculus and general chemistry. Differential equations, physical chemistry, and two years of a modern foreign language are recommended.

MINOR REQUIREMENTS

General education students are required to take 14 hours, including Physics 100, 111, and 117.

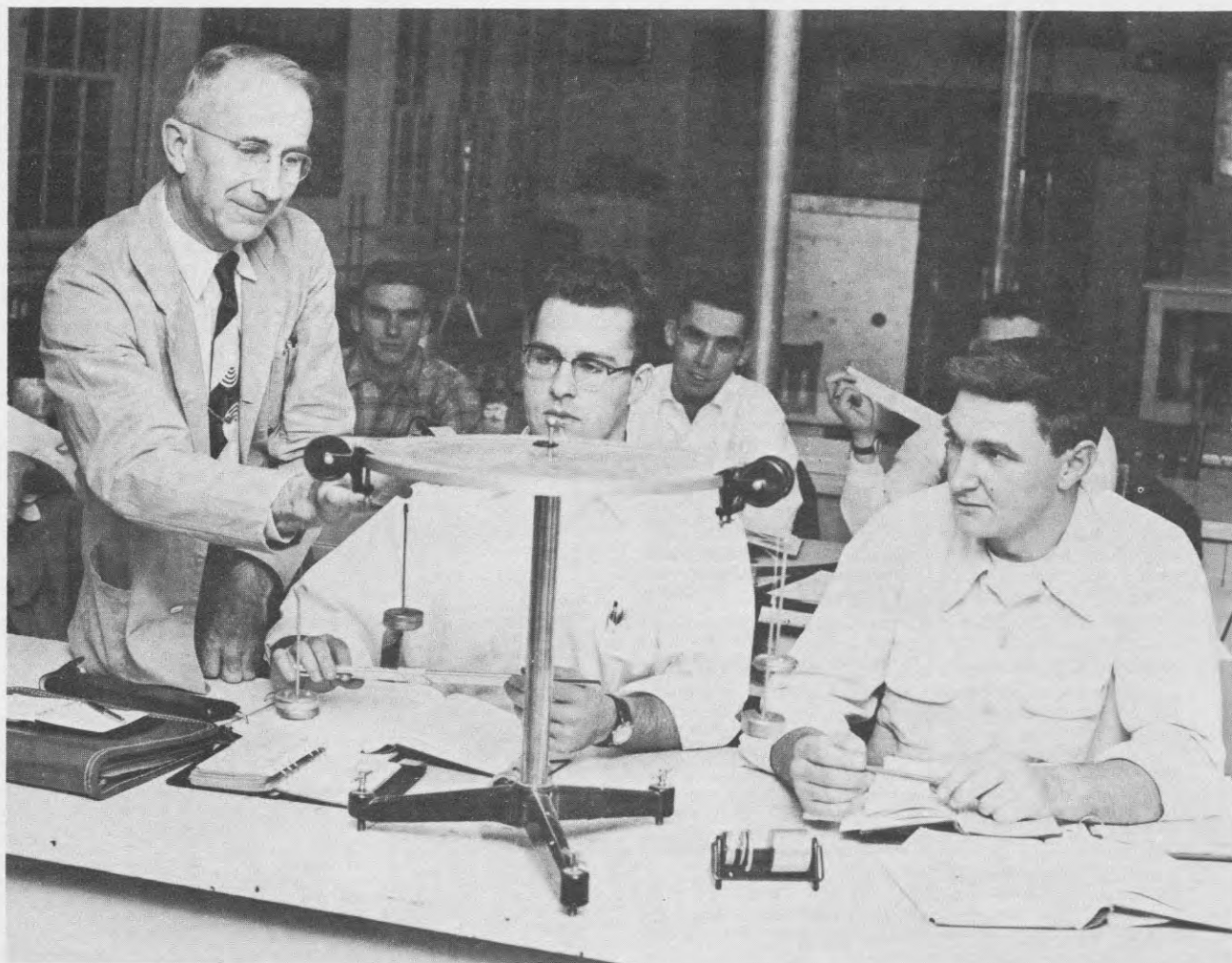
Sixteen hours are required for elementary and secondary teachers, including the following courses: Physics 211, 212, and 326.

PHYSICS COURSES

100 PRINCIPLES OF PHYSICAL SCIENCE

2 hours both semesters

An integrated study of astronomy, chemistry, geology, and physics. Historical development, social implications, and future importance will be considered. A general course for liberal arts students—a foundation course for science students. Chemistry 100 (3 hours) must be taken concurrently. Two lectures a week.



111 PHYSICAL SCIENCE CONCEPTS**2 hours first semester**

The major concepts of physical science are the basis for a new look at science for those already acquainted with it. High school algebra, geometry, and chemistry or physics (both are desirable) are prerequisite. Chemistry 111 (3 hours) must be taken concurrently. Two lectures a week.

118 ELEMENTARY PHOTOGRAPHY**2 hours first semester**

This course includes the elementary theory of photography and attempts to develop some skill in the exposing and processing of film, prints, and enlargements. Each student must have a camera. Supplies will cost about five dollars. One lecture and one laboratory a week. (Offered 1960-1961, and alternate years.)

119 MUSICAL ACOUSTICS **4 hours second semester**

Designed particularly for students of applied and theoretical music. The nature, production, and characteristics of musical sound and the physical basis of music will be studied. Three lectures and one laboratory a week. (Offered 1959-1960, and alternate years.)

211 GENERAL PHYSICS: Mechanics, Heat, and Sound**4 hours first semester**

A foundation course in physics. Physics 111, or equivalent, is prerequisite. Calculus should be taken concurrently. Three lectures a week and one laboratory.

212 GENERAL PHYSICS: Light, Electricity, and the Atom**4 hours second semester**

A foundation course in physics. Physics 211, or equivalent, is prerequisite. Three lectures and one laboratory a week.

217 EQUIPMENT FOR THE HOME**1 hour second semester**

A study of the selection, use, and maintenance of cooking, cleaning, lighting, and other mechanical and electrical equipment and appliances for the home. One lecture a week. (Offered 1959-1960, and alternate years.)

315 FUNDAMENTALS OF RADIO**4 hours second semester**

An experimental and theoretical study of radio. Physics 212, or equivalent, is prerequisite. Three lectures and one laboratory a week. (Offered 1960-1961, and alternate years.)

318 TECHNICAL PHOTOGRAPHY**2 hours second semester**

A more advanced study of photographic processes and techniques. The uses of photography are emphasized. 1 lecture and 1 laboratory a week. (Offered 1960-1961, and alternate years.)

326 ATOMIC PHYSICS**2 hours first semester**

A study of atomic structure and behavior, and related experimental equipment. Physics 212 is prerequisite. (Offered 1960-1961, and alternate years.)

327 NUCLEAR PHYSICS**2 hours second semester**

A study of the nucleus and nuclear processes. Prerequisite: Physics 326, or its equivalent. (Offered 1960-1961, and alternate years.)

357 ELECTRICITY AND MAGNETISM**3 hours first semester**

A course in electrical theory. Physics 212 and calculus are prerequisite. Whenever possible, Physics 357 and 358 should be taken concurrently. (Offered 1959-1960, and alternate years.)

358 ELECTRICAL MEASUREMENTS**2 hours first semester**

An experimental study of the methods and equipment used to measure electrical and magnetic quantities such as field strength, potential, power, resistance, inductance, capacity, etc. Two laboratories a week. (Offered 1959-1960, and alternate years.)

367 OPTICS**4 hours second semester**

Geometric and physical optics. Prerequisite: Physics 212 and Calculus. (Offered 1959-1960, and alternate years.)

415 INTRODUCTORY THERMODYNAMICS**3 hours first semester**

A beginning study of thermodynamics, designed for students of basic sciences and engineering. Calculus prerequisite. Three lectures a week.

417 HEAT MEASUREMENTS**2 hours first semester**

An experimental study of thermometry, calorimetry, pyrometry, and psychrometry. Physics 211 is prerequisite. One lecture and one laboratory a week.

482 THEORETICAL MECHANICS**3 hours, second semester**

Particle mechanics. Prerequisite: Physics 211, calculus, and differential equations.

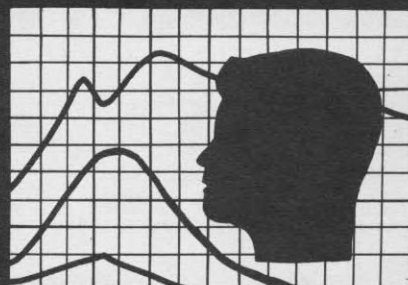
499 SPECIAL PROBLEMS**Credit to be arranged**

Elementary research investigations.

SOCIAL SCIENCES



- **HISTORY**
- **POLITICAL
SCIENCE**
- **PSYCHOLOGY**
- **SOCIOLOGY**



DIVISION IV. SOCIAL SCIENCES

The Social Science Division provides an understanding and appreciation of human relationships and social problems. It makes available a broad, liberal background for later professional study and furnishes the basis for informed and responsible citizenship.

SOCIAL SCIENCE MAJOR

Thirty-six hours are required. Eighteen hours must be upper division. A student may choose either of two plans.

Plan I. Twenty-four hours are required in an area that may be used as a teaching subject for prospective teachers, plus twelve hours chosen from two or more additional fields: economics, education, history, political science, and sociology.

Plan II. Eighteen hours are required in each of two fields chosen from economics, history, political science, psychology, and sociology. Three hours of statistics must be included in any combination except that of history and political science.

HISTORY

Dr. Cunningham, Dr. Duvall

This department is concerned with the task of presenting factual matter in a clear and comprehensive manner and teaching the student how to relate the facts of past history to the problems of the present and the future. It also shows the close connection between history and political science in the study of political institutions. A further objective is to prepare the student for continued research.

MAJOR REQUIREMENTS

Twenty-five semester hours are required, including courses 231, 232, and either 101 and 102 or 369 and 370. It is strongly recommended that history majors take basic courses in political science and the other social sciences. Courses in literature and philosophy also complement the study of history.

MINOR REQUIREMENTS

Sixteen hours are required for a minor.

HISTORY COURSES

101, 102 HISTORY OF CIVILIZATION

3 hours each semester

A survey of world history from pre-literary times to the present. Emphasis is placed upon the continuity of history and the relation which the past bears to contemporary civilization.

231 AMERICAN HISTORY TO 1865

3 hours first semester

A general course dealing with the development of the United States, including the European background, the colonial era, the struggle for independence, the development of national life and institutions, and the growth of sectionalism culminating in the Civil War.

232 AMERICAN HISTORY SINCE 1865

3 hours second semester

A continuation of History 231, emphasizing the development of the West, big business, overseas interests, and world leadership.

351 ECONOMIC HISTORY OF THE UNITED STATES

3 hours second semester

For course description, see Department of Economics and Business. (Offered 1959-60 and alternate years.)

353, 354 THE ANCIENT WORLD

2 hours each semester

The first semester includes a study of the pre-literary beginnings of patterns of human organization, the development of civilized life in the Ancient Near East; and the life and thought of the Greeks. The second semester deals with the development of the republic in Rome, and the rise and decline of the Roman Empire. Emphasis is laid on the contributions of the ancient world to the modern world. (Offered 1960-61 and alternate years.)

355, 356 HISTORY OF ENGLAND

2 hours each semester

Emphasis is placed on the development of social, economic, and political institutions from earliest Britain to the Commonwealth of Nations. Special work will be assigned those who are interested in constitutional developments. (Offered 1960-61 and alternate years.)

357, 358 RECENT AMERICAN HISTORY

2 hours each semester

A study of American History from 1920 to the present. Particular attention will be paid to the political, cultural, economic, and social development. (Offered 1959-60 and alternate years.)

359, 360 MEDIEVAL EUROPE

2 hours each semester

A study of Europe between the fall of Rome and the year 1500. This is often a neglected area of study. However it furnishes valuable understandings for the study of modern times as well as the development and place of the universal church. (Offered 1959-60 and alternate years.)

369, 370 MODERN EUROPE

3 hours each semester

This is basically a survey of European History since 1500. The first semester considers the history of Europe from 1500 until the Congress of Vienna. The second semester continues the study of the history of Europe to the present. Emphasis is placed on the development of the modern world from the heritage of Medieval Europe.

371 THE RENAISSANCE

2 hours each semester

An integrated study of the fundamental social, economic and political changes which attended the coming of the Renaissance; the outstanding literary, artistic, philosophic, musical and scientific developments and brilliant personalities which characterized this period; presented by instructors from these various fields of learning. Must be taken concurrently with English 371. (Offered 1959-60 and alternate years.)

372 THE REFORMATION 2 hours second semester

A study of the major economic, social, political, and cultural developments of the 16th and 17th centuries with special reference to their relationship to the religious life of that time. (Offered 1959-60 and alternate years.)

400 CONTEMPORARY EUROPE 3 hours

This course is designed to give the student an understanding of the forces, men, and events that have shaped Europe's destiny in this century. Especial attention will be given to recent happenings in Europe and the threat of Communism.

475, 476 THE AMERICAN COLONIES 2 hours each semester

A study of the transplanting of European culture to American soil; the development of these colonies through the War for Independence. (Offered 1960-61 and alternate years.)

477, 478 THE WESTWARD MOVEMENT 2 hours each semester

A comprehensive study of the westward movement of the American people from colonial beginnings to modern times; the significance of the frontier in American History; the importance of the West as a section of the American nation. (Offered 1960-61 and alternate years.)

485 WASHINGTON STATE HISTORY AND GOVERNMENT 2 hours second semester

Historical development of the territory and State of Washington; study of the beginning and present government. A required course for education majors planning to teach in Washington.

491, 492 INDIVIDUAL CONFERENCE AND RESEARCH 1-3 hours each semester

Students are allowed to follow their own particular interests in history under guidance and will be held for detailed reports of their research. Review will be made of the various techniques and methods in research and the proper utilization of each. Credit given depends upon the amount of investigation done by the student.

Open only to seniors and graduates. The consent of the instructor is required for admission to this course.

POLITICAL SCIENCE

Dr. Cunningham, Mr. Gray

The courses in political science are designed to acquaint one with the origin and nature of governmental organizations. The department seeks to promote perspective and balanced judgment in analyzing and interpreting world affairs.

MAJOR AND MINOR REQUIREMENTS

A major in political science consists of a minimum of 25 semester hours in political science; a minor, at least 16 hours. A foreign language is required of all who major in political science.

POLITICAL SCIENCE COURSES**101 AMERICAN NATIONAL GOVERNMENT**

3 hours first semester

A study of the historical development and principles of the federal system of government in America; the territorial and functional distribution of government powers; civil rights; and political parties.

102 AMERICAN STATE GOVERNMENT

3 hours second semester

A study of state constitutions; the government and politics of states; and intergovernmental relations.

242 AMERICAN POLITICAL PARTIES

3 hours second semester

A study of political parties as an instrument in the development of the American democratic system. Emphasis will be placed upon the history of political parties and their place in the political history of the American Republic. (Offered 1960-61 and alternate years.)

351 INTERNATIONAL RELATIONS

3 hours each semester

A study of the factors, rules and customs which affect the relations of the national states; attempts to establish international organizations. (Offered 1960-61 and alternate years.)

357 STATE AND FEDERAL COURTS

3 hours second semester

The course will include a study of the following: history of the courts and legal rights, trials and trial procedures, civil and criminal law principles, and structure of state and federal court systems. (Offered 1960-61 and alternate years.)

361, 362 AMERICAN DIPLOMACY

2 hours each semester

The origin and development of agencies and policies of diplomacy in America. (Offered 1959-60 and alternate years.)

365 AMERICAN CONSTITUTION 3 hours

A study of the growth and development of the Constitution of the United States as reflected in the decisions of the Supreme Court. Special stress upon principles of the federal system; civil and political rights; executive power, powers of Congress, the Judiciary; the regulation of commerce; and taxation.

481 HISTORY OF POLITICAL THOUGHT 3 hours

The thought of the political philosophers and the development of basic concepts of the state from the time of Plato to the present.

491, 492 INDIVIDUAL CONFERENCE AND RESEARCH

1-3 hours each semester

Students are allowed to follow their own particular interests in this field under guidance and will be held for detailed reports of their research. Credit given depends upon the amount of investigation. Open only to seniors and those majoring in Political Science.

PSYCHOLOGY

Dr. MacDonald, Dr. Beach, Dr. Quall, Dr. LaCoste

Course offerings in the department of psychology are designed to provide students with a knowledge of the facts, problems, and research findings in the basic behavioral processes. An acquaintance is made with the basic concepts of psychology, including quantitative, experimental, and clinical techniques. Attention is given to a view of the concepts and issues of psychology from different theoretical positions. Provision is also made for personal and social adjustment through the application of psychological principles.

A major in psychology can be a first step toward any of a number of professional opportunities. Among them are college teaching, research, personnel work in industry and government, psychometrics, vocational and personal guidance in schools and colleges, clinical work with either children or adults in guidance clinics, juvenile and criminal courts, and mental hospitals. Nearly all of these positions require graduate work leading to the M.A. or Ph.D. degree. In addition, the major or a minor in psychology will equip the student with understandings and techniques beneficial in related vocations of teaching, the ministry, social work, business and nursing.

MAJOR REQUIREMENTS

A major in psychology consists of at least 30 semester hours of credit, including the following required courses: 101, 210, 250, 362, 383, 454, 495, 496, and either 324 or 359.

Students majoring in psychology are encouraged to elect courses in the biological sciences, including anatomy, physiology and genetics for the required laboratory science. Courses in mathematics and at least one course in philosophy are highly recommended. It is recommended that General Psychology be taken in the freshman year, and that Developmental Psychology be completed prior to the second semester of the sophomore year. Greater liberty in the scheduling of required courses is possible if Statistics is taken during the second semester of the sophomore year.

MINOR REQUIREMENTS

A minor consists of at least 16 hours.

PSYCHOLOGY COURSES

101 GENERAL PSYCHOLOGY 3 hours each semester

A survey of the field of psychology, including an introduction to the basic psychological concepts of maturation, motivation, perception, learning, emotion, emotional conflict, thinking, intelligence, and personality. (This course is a prerequisite to all courses in psychology.)

210 DEVELOPMENTAL PSYCHOLOGY

3 hours each semester

A study of physical, social and emotional growth and development from birth through adulthood. The course is designed to give an understanding of the individual in life situations. Prerequisite: 101.

240 CHILD PSYCHOLOGY 2 hours each semester

A course designed for nurses only, and offered at the hospital. The study of physical, intellectual, social, and personality growth from infancy through adolescence. Prerequisite: 101.

241 SOCIAL PSYCHOLOGY 3 hours first semester

Study of the interaction of the individual personality with his group and with other individuals. Emphasis is placed on the socialization of the personality, interpersonal relations, the behavior and interaction of groups, and other social-psychological phenomena. Prerequisite: 101.

250 STATISTICS 3 hours each semester

Statistical methods and their application to social problems, with emphasis on the use and interpretation of statistical data. Prerequisite 101.

267 GROUP DYNAMICS 2 hours second semester

Systematic study of the characteristics of face-to-face groups: cohesiveness, goal-setting, decision-making, styles of leadership, membership roles. Emphasis is placed on practical applications of group dynamics theory; observations are taken of groups in action. Prerequisites: 101 and 241 (limited enrollment). (Offered 1960-61 and alternate years.)

324 PSYCHOLOGY OF ADJUSTMENT

3 hours first semester

A study of human adjustment with emphasis on motivation, frustration and conflict, varieties of adjustive behavior, and positive mental hygiene. Emphasis is placed on the application of adjustment principles to the personal life of the student. Prerequisites: 101 and 210.

327 PSYCHOLOGY OF PERSONALITY

3 hours second semester

An examination of the major theories of personality development and structure. Study of the formation and function of the individual personality. Prerequisites: 101 and 210. (Offered 1960-61 and alternate years.)

359 ABNORMAL PSYCHOLOGY

3 hours second semester

A study of the nature of behavior pathology with emphasis on developmental factors, behavior syndromes, and problems of diagnosis and treatment. Prerequisites: 101, 210, 324 or 327, or permission of the instructor.

362 EXPERIMENTAL PSYCHOLOGY

AND LABORATORY 3 hours first semester

A laboratory course in the fundamentals of psychological research and experimentation. Training in the scientific methods and tools of modern experimental psychology, with emphasis on student design and execution of experiments, interpretation of data, and the writing of reports. Two consecutive periods twice weekly. Prerequisites: 101, 250.

377 PSYCHOLOGY OF RELIGIOUS EXPERIENCE

2 hours second semester

Systematic study of religious experience from the psychological viewpoint. Experiences such as worship, conversion and prayer are discussed in the light of psychological concepts and insights. Prerequisite 101.

383 PSYCHOLOGICAL THEORY AND HISTORY

3 hours second semester

A study of the nature and problems of theory construction in psychology. Contemporary issues in psychology are viewed in historical perspective and from different theoretical positions. Prerequisite: Six hours in psychology exclusive of statistics. A course in philosophy is highly recommended. (Offered 1960-61 and alternate years.)

436 BUSINESS AND INDUSTRIAL PSYCHOLOGY**3 hours second semester**

The methods of psychology applied to the problems of business and industry. Employee appraisal through development and use of evaluative instruments, employee selection, training, morale, fitness, productivity. The psychological principles involved in selling, advertising and personnel problems. Prerequisites: 101, 250. (Offered 1959-60 and alternate years.)

454 MEASUREMENT IN PSYCHOLOGY**3 hours first semester**

Theory of psychological measurement. A survey of individual and group tests employed in the measurement of general abilities, aptitudes, interests and personality characteristics, together with problems of administration, scoring and the interpretation of test results. Prerequisites: 101, 250.

468 THEORY OF COUNSELING AND GUIDANCE**2 hours second semester**

An introductory course in the purpose and theory of the counseling process, functions of the counselor, introduction to interview technique, individual appraisal and records in the counseling process. Prerequisites: 101, 210 and either 327, 324, or 359.

480 READINGS IN PSYCHOLOGY**2-3 hours**

Directed readings on topics chosen in consultation with the departmental staff. Open to advanced students only. Prerequisite: Majors only, with permission of the department head.

490, 491 INDEPENDENT RESEARCH**2-3 hours**

Systematic investigation involving the application of statistical method to a specific problem. Open only to senior psychology majors and graduate students. Work to be done in consultation with the Head of the Department of Psychology.

495, 496 SENIOR SEMINAR**1 hour each semester**

Seminar discussions on major concepts in psychology. Discussions based on independent readings and guided by members of the faculty. Designed to integrate previous learnings in psychology.

SOCIOLOGY*Dr. Schlauch, Dr. Beach, Mr. Houser*

Sociology develops an understanding and appreciation of human relationships and social problems. It also provides a broad liberal background for later professional study in law, medicine, the ministry, and social work.

Students in sociology may prepare themselves for any one of the following fields of work: social research, social service work (see Pre-Professional Studies section,) playground work, director of youth groups, teacher of sociology, probation or parole officer, criminologist, Y.M.C.A. or Y.W.C.A. work. It is understood that for any of these positions graduate work must be done in sociology or social work or in other specified fields.

Through an arrangement with the Spokane Y.M.C.A. and the Y.W.C.A., the Sociology Department offers a series of courses in leadership training in social group work, including actual practice in the leadership of boys' or girls' groups at various age levels. The Y.M.C.A. and the Y.W.C.A. pay the expenses of these leaders to and from the places where they have charge of their youth groups.

MAJOR REQUIREMENTS

Twenty-five hours are required for a major, including courses 111, 112, 241, 250, and 353. It is recommended that sociology majors take principles of economics, U. S. history, American government, logic, biology, and considerable psychology. Students preparing to teach in the public schools of the State of Washington under the General Certificate, and choosing sociology as the field of concentration in the "Broad Area of Social Studies," must complete a total of 24 semester hours, including courses 111, 112, 241, and 353. A foreign language is required of sociology majors.

MINOR REQUIREMENTS

Sixteen hours are required, including 111, 112, 241 and 353.

SOCIOLOGY COURSES**101 INTRODUCTION TO SOCIOLOGY****2 hours each semester**

An introduction to the field of sociology, with special emphasis on the problems of the family and the community.

111 INTRODUCTION TO SOCIOLOGY**3 hours first semester**

A study of the major concepts of sociology. This course provides a background for further study in the field of sociology. It is the course required of students majoring in the field. (Credit cannot be given for both Sociology 101 and Sociology 111.)

112 SOCIAL PROBLEMS**3 hours second semester**

A study of our chief social problems; their causes, their results, and some suggested solutions.

231 CULTURAL ANTHROPOLOGY**2 hours first semester**

A study of comparative cultures, both primitive and modern.

233 YOUTH AND MARRIAGE 2 hours first semester
A study of the factors in preparation for marriage and family life. Factors in marriage adjustment and parent-child interaction.

237 CRIMINOLOGY 3 hours first semester
A study of crime: nature and extent, causes, control; rehabilitation of the criminal.

241 SOCIAL PSYCHOLOGY 3 hours first semester
A study of the relationship between social organizations and the personality attributes of members of society. The social nature of ethnic, racial, class, and sex differences. The development of socialized personality.

242 RACE RELATIONS 3 hours second semester
A study of races and cultures, race attitudes and conflicts, race problems and race relations; special reference to problems in the United States.

243, 244 LEADERSHIP TRAINING FOR SOCIAL GROUP WORK 2 hours each semester
Principles and practices of social group work; studies of group work agencies in the community; purpose and program of the Y.M.C.A. and the Y.W.C.A.; problems related to religious experiences and to home experiences; leadership techniques in recreation; organization of recreation for parties. (These courses, along with 359 and 360, are given in cooperation with the Y.M.C.A. and the Y.W.C.A. of Spokane. Prerequisites for these courses are general psychology, developmental psychology or child psychology, and introduction to sociology. It is strongly recommended that students planning to take these courses take also social psychology, physical education techniques and first aid.



250 STATISTICS 3 hours each semester
Statistical methods and their application to social problems, with emphasis on the use and interpretation of statistical data.

353 THE FAMILY 3 hours second semester
A study of the family in various cultures; family problems, approaches to their solution.

359, 360 SUPERVISED GROUP WORK 2 hours each semester
Students taking these courses will spend approximately six to eight hours a week organizing and directing groups in connection with the Y.M.C.A. or the Y.W.C.A. In addition, there will be conferences of these leaders on the seminar basis at stated intervals.

361 RURAL SOCIOLOGY 2 hours first semester
A study of the structure and institutions of the rural community; the social and economic problems of rural areas; community organizational approach to rural community functioning.

362 URBAN SOCIOLOGY 2 hours second semester
A study of the growth of cities, and the problems of city life.

364 PUBLIC OPINION 2 hours second semester
A study of the various factors in the formation of public opinion; the press, the radio, the public platform; censorship, propaganda, education; the techniques in democracies and dictatorships.

365 CONTEMPORARY SOCIAL MOVEMENTS 2 hours second semester
A study of the nature and origin of such social movements as socialism, communism, fascism, and social democracy.

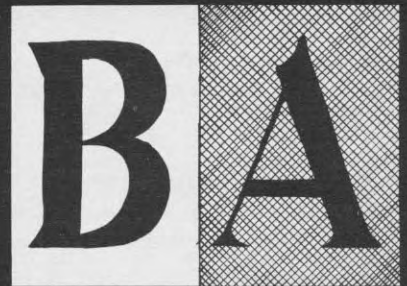
371 PRINCIPLES OF SOCIAL WORK 2 hours first semester
A study of the basic principles and practices in modern case work and community organization. Study of the present social work agencies, both public and private, and the roles and functions of social workers and administrators.

372 FIELD OBSERVATION 2 hours second semester
Supervised field work with social agencies. Prerequisite, course 371.

374 COMMUNITY ORGANIZATION 2 hours second semester
A study of the organizations of communities for various social purposes. Includes both private and public organizations.

491, 492 INDIVIDUAL CONFERENCE AND RESEARCH 2-4 hours each semester
Students are allowed to follow their own particular interests in this field, and will be held for detailed reports on their research. Credit given depends upon the amount of work done, and the results of the investigation.

BUSINESS SCIENCES



- **ADVERTISING**
- **BUSINESS
ADMINISTRATION**
- **ECONOMICS**
- **JOURNALISM**
- **SECRETARIAL
SCIENCE**



Today's super airliners—like the giant new Douglas DC-6—are a boy's dream come true.

For at seventeen young Donald Douglas saw the Wright Brothers fly the world's first airplane that day the designing and building of airplanes became his life—aircraft that have set new patterns in the sky.

As far back as 1934 Douglas began to turn air travel with the famed Douglas DC-3 into a new era. At that time the airlines of the world were still in their infancy. Comfortable flights that came through the sky were rare.

And when war broke out, the big Douglas DC-4 was flying—ready to transport millions of men over all the



DIVISION V. BUSINESS SCIENCES

The Business Sciences Division, recognizing its cultural obligation, seeks to acquaint students with the history, principles, and influence of our dynamic economic system and of our media and methods of communication. Through its various courses in its member departments, the Division prepares students to function as competent men and women in handling the work and problems of the business world and in the reporting and interpreting of human affairs.

ADVERTISING

Mr. Gray, Mr. Sprague

Advertising offers a wide variety of activity and a rewarding life's work to young people with creative and constructive talents. It provides the opportunity for the free, liberal use of creative imagination, artistic talent, showmanship, expression and persuasion.

The Whitworth advertising curriculum was planned jointly by advertising professional men and the faculty and has been approved by the Spokane Advertising and Sales Association. It combines the best in a liberal arts education with the specialized knowledge required in today's competitive world and leads to a B.A. degree. It offers to students during the senior year on-the-job training in local advertising offices, such as agencies, newspapers, television and radio stations, outdoor advertising firms, and department stores.

MAJOR REQUIREMENTS

Thirty hours are required for a major, including courses 248, 249, 250, and 251.

A major also requires Econ. 101, 102, 236; Art 101, 107, 241; Journalism 125, 244; Speech 120; Sec. Sci. 101, 102 (unless student passes proficiency test in typing); Psychology 121; 6 semester hours in Sociology including Soc. 350; 6 semester hours in History; and 6 semester hours in English or American Literature.

MINOR REQUIREMENTS

Eighteen hours are required for a minor, including courses 248 and 249.

ADVERTISING COURSES

248 ESSENTIALS OF MARKETING

3 hours first semester

A basic course dealing with the methods, policies, and institutions involved in the distribution of goods from the producer to the consumer; the marketing activities of manufacturers, wholesalers, and retailers; methods for improving efficiency and lowering distribution costs.

249 ESSENTIALS OF ADVERTISING

3 hours second semester

An overall view of the entire field of advertising. Provides a background for specialized advertising courses and essential information for business executives and others who use advertising media to communicate with the public. It deals with the structure and scope of the advertising industry; preparation of the message—visualization, copy, illustration and color, layout, production and printing, television and radio commercials; and a survey of advertising media, campaign planning, and research practices.

250, 251 ADVERTISING COPY 3 hours each semester

A study of the nature and purpose of advertising copy; essential principles of construction; the use of specific product benefits and selling points; writing effective headlines; using human interest material; preparing television and radio commercials. Practice assignments for various media.

352 ADVERTISING PRODUCTION

3 hours second semester

A study of the steps and techniques used in building the printed advertisement including visualization of the appeal, focusing attention by layout, selection of illustrations and color, the use of various printing processes, typography, paper stock and the preparation of dummies for direct advertising.

355 ADVERTISING PSYCHOLOGY

AND RESEARCH

3 hours second semester

A study of the satisfactions which people seek and which prompt them to buy and the psychological techniques used in reaching them through advertising. Emphasis is placed on such psychological concepts as motivation, perception, and sensitivity in relation to advertisements and media. (Offered 1959-60 and alternate years.)



356 DIRECT ADVERTISING 3 hours first semester
Practice in the preparation of various types of sales literature including letters, booklets, brochures, folders, and catalogues to meet typical sales problems. (Offered 1959-60 and alternate years.)

357 TELEVISION AND RADIO ADVERTISING 3 hours first semester
A study of television and radio as advertising media including network, regional, and spot facilities. Preparation of programs and commercials and tests of their effectiveness, station selection, time buying, and audience measurement techniques. (Offered 1960-61 and alternate years.)

358 SALESMANSHIP 3 hours first semester
The essential principles of selling and their practical application to the sale of various products and services including space and time in advertising media. Practice in preparation and delivery of sales presentations.

480 EVALUATION OF MEDIA 3 hours first semester
A study of the use of advertising media in terms of their functions and effectiveness in achieving specific marketing objectives; their comparative advantages and disadvantages and their suitability for various products and markets.

481 ADVERTISING CAMPAIGNS 3 hours second semester
Practice in the planning and development of advertising campaigns for various products and services including the preparation of schedules to fit specific advertising appropriations and objectives. (Offered 1960-61 and alternate years.)

485, 486 PRACTICAL EXPERIENCE 3 hours each semester
Practical experience in advertising work through part-time employment with cooperating advertising agencies, newspapers, television and radio stations, outdoor advertising firms, and retail stores is offered to qualified seniors specializing in Advertising. Credit thus received may not be counted toward the major requirement of 30 hours.

490 MARKETING RESEARCH 3 hours second semester
Practical training in the basic principles and techniques of research in market including questionnaire design, preliminary testing, interviewing, sampling, tabulation, and report writing.

492 MARKETING SEMINAR 2 hours each semester
Special projects or research in Advertising, Selling or Marketing. Open only to qualified seniors.

ECONOMICS AND BUSINESS AND SECRETARIAL SCIENCE

Dr. Bibb, Miss Evans, Mrs. Quall, Mr. Heerschap

This department provides an understanding of the philosophy and principles underlying our economic system. A knowledge is gained of the general field of business and industry, especially as they afford opportunities to college graduates for future careers. A student receives preparation for further specialization through graduate work in economics and business. Instruction is also given students in those skills needed to hold secretarial and stenographic positions.

Students in this department receive training to enter one of the following fields: salesmanship, careers in corporations, proprietorship of small business, secretarial positions, teaching business subjects in high school, and college teaching. Basic training is also given for such fields as personnel direction, accounting, departmental management, and economic research.

MAJOR REQUIREMENTS FOR BUSINESS

Twenty-seven hours are required for a major, including 101, 102, 230, 231, 240, 351, 301, and one of the following: 353, 355, or 411. History 201 and 202 are also required. It is recommended that majors in economics and business elect courses in history, sociology, psychology, mathematics, education, and foreign language.

MINOR REQUIREMENTS FOR BUSINESS

Sixteen hours are required for a minor, including 101 and 102.

MINOR REQUIREMENTS FOR ECONOMICS IN ADVERTISING

Sixteen hours are required, including 101, 102, and 240.

MAJOR REQUIREMENTS FOR SECRETARIAL SCIENCE

Twenty-five semester hours are required, including 101, 102, or 203, 204; 105-106 or 207, 208; 236, 240, 363, and EB 230, 231. History 201 and 202 are also required. If satisfactory preparation has been made in Secretarial Science 101, 102, 105, and 106, these courses are waived and the student chooses second-year courses.

MINOR REQUIREMENTS FOR SECRETARIAL SCIENCE

Sixteen hours are required. Unless adequate preparation has been made in shorthand and typing, a minor includes Secretarial Science 101, 102, or 103, 104; 105-106, or 207, 208; 236 and 240. When there has been satisfactory preparation in shorthand and typing, Secretarial Science 363, EB 230, 231, and elective courses in economics and business may be substituted.

It is recommended that secretarial science students elect courses in history, sociology, psychology, literature, etc., to acquaint them with the social and cultural development of the world.

ECONOMICS AND BUSINESS COURSES

101, 102 PRINCIPLES OF ECONOMICS

3 hours each semester

This lays a foundation for future study in economics and business. The conventional treatment is followed, including: consideration of the several factors of production, and of money, credit, exchange, value, price, and distribution. Considerable emphasis is placed on the application of economic theory to current business problems.

121 MATHEMATICS OF FINANCE

3 hours

For course description see Department of Mathematics.

230, 231 ACCOUNTING

3 hours each semester

A study of the accounting principles and procedures used in the construction and interpretation of the record of sole proprietorship, partnership, and corporation forms of business units.

235 WORLD RESOURCES, ECONOMIC GEOGRAPHY

3 hours

A functional appraisal of the availability of agricultural and industrial resources. An attempt to develop an understanding of the cultural, technological, economic system. The emphasis is on concepts rather than mere factual knowledge, although relevant data will not be neglected. (Offered 1960-61 and alternate years.)

236 BUSINESS ENGLISH

2 hours

Business letters in their various forms. A course to give training in business methods as applied to office correspondence. This course is also offered for credit in English. Prerequisite: English 101, and ability to type. Limited enrollment.

238 CONSUMER ECONOMICS

2 hours

This course treats of the theory and practice of the economics of consumption. Buying habits, budgets, consumer prices, cooperatives, government protection of the consumer, Fair Trade laws, and other spheres of government aids. For women. (Offered 1960-61 and alternate years.)

240 BUSINESS LAW

3 hours

A consideration of the laws affecting business transactions. Essentials of contracts, offer, acceptance, agency, partnership, corporate law, sales, and negotiable instruments. Theoretical considerations are illustrated by the study of various cases—paying special attention to the bases of decisions. (Offered 1959-60 and alternate years.)

250 STATISTICS

3 hours each semester

Statistical methods and their application to economic and social problems, emphasis being placed on the use and interpretation of statistical results.

301 MONEY AND BANKING

3 hours

The topics treated in this course include: The nature, function and regulation of money and credit; the nature, function, and regulation of banks and other financial institutions; the Federal Reserve System; and the agricultural credit agencies in the United States.

332 COST ACCOUNTING

3 hours

Source of cost data; analysis, classification, and distribution of expenses; and the linking up of data with the general accounting records. Prerequisite EB 230, 231. (Offered 1959-60 and alternate years.)

351 ECONOMIC HISTORY OF THE UNITED STATES

3 hours

This course covers the development of American industry from its beginning to the present. Various specific industries are considered in their historical perspective and in their effect on the social economy. (Offered 1960-61 and alternate years.)

353 INVESTMENTS

3 hours

Analysis of securities; the principles of diversification; securities exchanges; bonds and stocks as investments. (Offered 1959-60 and alternate years.)

355 BUSINESS FINANCE

3 hours

A study of the financing problems of modern business in the promotion, operation, reconstruction, and consolidation of enterprises. Prerequisites: EB 230, 231. (Offered 1960-61 and alternate years.)

357 BASIC PRODUCTION

3 hours

An introduction to manufacturing operations and management; role of production in modern industry; planning; analytical tools and concepts; supervising, and evaluating; recent developments in automation. (Offered 1959-60 and alternate years.)

359 LABOR ECONOMICS

3 hours

This course deals with the history and theories of employment and means of relieving unemployment; the nature and theories of wages; the labor union movement, collective bargaining, and places emphasis upon labor-management relations. Some study will be made of recent legislation in this field. (Offered 1960-61 and alternate years.)

411 BUSINESS FLUCTUATIONS

3 hours

Attention to regional and national conditions. Some analysis of the causes for change, particularly of business cycles. Prerequisites: 301 and 355. (Offered 1960-61 and alternate years.)

412 PUBLIC FINANCE

3 hours

Examination of the theories and facts relating to the finances of local, state, and national governments with special reference to the United States public revenues from taxation, public expenditures and public debt.

462 TRANSPORTATION

3 hours

A study of the development of American transportation systems, railroads, highways, air, and water. The principles of rate making, government regulation, and financing will be covered. (Offered 1959-60 and alternate years.)

465 HISTORY OF ECONOMIC DOCTRINES

4 hours

A study of the development of economic theory from the earliest times to the present. The approach is largely theoretical. Consideration will be given to the validity of the ideas of the various schools of economic thought in the light of the conditions prevailing at the time those theories were developed as well as to the effect of those theories upon our present-day economic thought. (Offered 1960-61 and alternate years.)

481 INTERNATIONAL ECONOMICS

2 hours

Different systems of economics and business in main countries. Finance, commerce, manufacturing, exchange and other phases.

491 RESEARCH

2-3 hours

Individual study. (Offered 1959-60 and alternate years.)

SECRETARIAL SCIENCE COURSES

101 ELEMENTARY TYPEWRITING

2 hours on demand

Fundamentals of typewriting, including technique of stroking, rhythm, accuracy, arrangement of work, acquaintance with the various parts of the typewriter and how to use them. Laboratory course.

102 ELEMENTARY TYPEWRITING

2 hours each semester

Continuation of Typewriting 101 with special emphasis on business letters, office records, etc.; and development of speed and accuracy. Laboratory course. Prerequisite: Knowledge of parts of machine, keyboard, and ability to type 30 words a minute.

105, 106 ELEMENTARY SHORTHAND

4 hours each semester

Five class periods per week. Recommended Secretarial Science 101 and 102 or its equivalent. Completion of the manual and development of transcription ability. (No credit will be given for less than one year's work except where part of the course has been completed elsewhere.)

203, 204 ADVANCED TYPEWRITING

2 hours each semester

Further development of speed and accuracy; tabulation arrangement of letters and business forms. Laboratory course.

207, 208 ADVANCED SHORTHAND

3 hours each semester

Three class periods per week. Continuation of Secretarial Science 106 with special emphasis on the development of speed and transcription skill.

230, 231 ACCOUNTING

3 hours each semester

For course description, see Department of Economics and Business.

236 BUSINESS ENGLISH

2 hours first semester

For course description see Department of Economics and Business.

240 SECRETARIAL WORK

2 hours second semester

Prerequisite: ability to type. Office dictation, filing, indexing, handling of mail, office appointments, telephone, modern office methods, duties of stenographic and allied departments, secretarial ethics, etc. (Offered 1960-61 and alternate years.)

363 BUSINESS MACHINES

2 hours first semester

Prerequisite: Ability to type. A laboratory course which gives training in the use of various office machines, such as adding machine, calculator, comptometer, etc. Open only to Secretarial Science, Economics and Business students.

365 METHODS IN TEACHING BUSINESS SUBJECTS

2 hours first semester

A course designed to prepare students interested in teaching commercial subjects in the secondary school. Special methods used in the teaching of skill subjects are given, the literature of the field is studied and available sources of material presented. (Offered 1959-60 and alternate years.)

466 OFFICE MANAGEMENT

2 hours second semester

The organization of an office showing the functions and routines of different departments. The practical application of personnel relations, office budgets, selection of office equipment, etc. (Offered 1959-60 and alternate years.)

JOURNALISM

Mr. Gray

Offerings of the journalism department and recommended curricula in liberal arts will provide journalism majors and minors with a broad, liberal training. The sequence of study will prepare students to interpret and report the pattern of human affairs and to produce the clear, readable prose necessary to help solve the communications problems of the modern world.

Several of the journalism courses (Introduction to Journalism, Reporting, Editing, Introduction to Religious Writing, Publicity and Public Relations, and Writing for Publication I and II) are valuable for non-journalism majors. Communications techniques learned in these courses will help non-journalism majors to enlarge their service to their own professional fields.

MAJOR REQUIREMENTS

Twenty-six semester hours are required for a major, including the following courses: 115, 125, 242, 247, 354, 357, 360, 470, and 481. Subject to approval of the journalism faculty, the journalism major may choose that sequence of courses (basic journalism plus pertinent courses in other fields, particularly liberal arts) which will meet the needs of his vocational objective, whether that be (1) general newspaper work, (2) magazine writing and editing, (3) public relations, (4) religious journalism, or (5) teaching journalism.

Miscellaneous requirements for the journalism major will include a course in photography, a course in typing (or successful completion of a validating test in the subject), and at least 22 semester hours in social sciences taken from at least four fields. Study of a foreign language is strongly recommended. A journalism major must maintain a 2.5 point average in journalism.

During the senior year the qualified journalism student may elect to receive on-the-job experience with a commercial publication or with a radio or television station.

MINOR REQUIREMENTS

Sixteen semester hours are required for a minor, including 242, 354 and 481. The department offers a religious journalism minor as a service to pre-ministerial students and Christian education majors. Sixteen hours are required for the minor with the following courses recommended: 242, 244, 248, 360, 481, and 482.

JOURNALISM COURSES

115 INTRODUCTION TO JOURNALISM

3 hours first semester

An explanation of what journalism is and study of its importance and influence. Introduction to journalistic style. The course will include a vocational survey of the field.

125 REPORTING

3 hours second semester

Lectures, practice and group discussion of the work of the reporter. Principles of news gathering and news writing.

242 EDITING

3 hours first semester

Instruction and practice in editing copy, writing headlines, make-up, evaluating news, etc. Prerequisite: 125.

244 PUBLICITY AND PUBLIC RELATIONS 2 hours

Principles and practices of publicity and public relations in business, industry, government, and social agencies. Analysis of public opinion and propaganda. Use of surveys, publicity, advertising, and special events in public relations.

245a, b. APPLIED JOURNALISM 1 hour each semester

Staff members of THE WHITWORTHIAN (245a) and of THE NATSIHI (245b) will receive, if their work is satisfactory, not more than one credit each semester.

247 HISTORY AND INFLUENCE OF JOURNALISM

3 hours second semester

A study of the evolution and influence of newspapers and magazines, with special reference to problems of present-day journalism. Study of relation of newspapers and magazines to public opinion, government, and society. (Offered 1960-61 and alternate years.)

248 INTRODUCTION TO RELIGIOUS WRITING

3 hours second semester

The course will emphasize instruction and practice in writing techniques needed by church workers, both lay and professional. The following subjects will be covered: religious publicity for newspapers and magazines; production of church publications; and writing of church letters, annual reports, and devotional materials.

354 ADVANCED JOURNALISM

3 hours second semester

Advanced problems and projects in news reporting and editing with special emphasis given to public affairs journalism. (Offered 1959-60 and alternate years.)

357 STATE AND FEDERAL COURTS

3 hours second semester

The course will include a study of the following: history of courts and legal rights, trials and trial procedure, civil and criminal law principles, and structure of state and federal court systems. Political Science credit will be given for this course. (Offered 1960-61 and alternate years.)

360 EDITORIAL WRITING

2 hours first semester

The theory and practice of editorial writing; analysis of editorial policy; interpretation of news. (Offered in 1960-61 and alternate years.)

368 TEACHING JOURNALISM AND SUPERVISING PUBLICATIONS

3 hours first semester

Lectures on teaching journalism courses and supervising publications on high school and college levels. (Offered 1959-60 and alternate years.)

370 LAW OF PRESS, RADIO, AND TELEVISION

3 hours first semester

Lectures and readings in libel and slander, right of privacy, copyright, and other legal phases pertaining to media of communication. (Offered 1960-61 and alternate years.)

475 PRACTICAL JOURNALISM EXPERIENCE

2-4 hours

Limited to qualified journalism seniors who may elect to receive on-the-job experience with a newspaper, magazine, radio, or television station.

481 WRITING FOR PUBLICATION I

3 hours first semester

Lectures and practice in preparing feature articles for newspapers and magazines. Each student in class will submit articles as free lance efforts. Students interested in religious journalism will be assigned special projects in that field. (Offered 1959-60 and alternate years.)

482 WRITING FOR PUBLICATION II

3 hours second semester

An advanced feature writing course. Prerequisite: 481. (Offered 1959-60 and alternate years.)

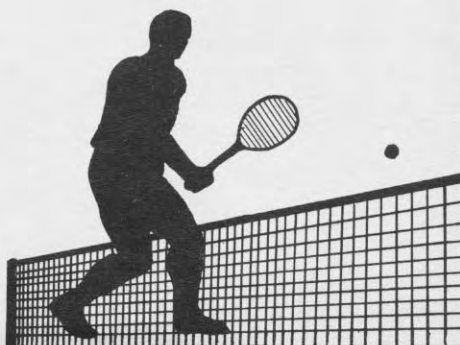
490 SEMINAR IN JOURNALISM

1 or 2 hours

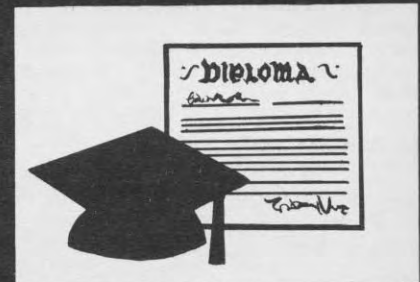
Opportunity for advanced students to do journalistic research. Work to be done in consultation with the head of the journalism department. Students must have at least senior standing.

EDUCATION

- EDUCATION
- PHYSICAL EDUCATION



recreation
SPORTS
health ed.
INTRAMURAL



DIVISION VI. EDUCATION

This division prepares individuals for teaching at all levels of education. Opportunity is given for the layman to take courses which will be of general interest even though the primary objective is to provide instruction which will enable students to be fully prepared to enter the teaching profession. The divisional offerings provide opportunity for the student to develop a desirable level of physical fitness and to become well trained in the entire area of physical education, as well as education.

EDUCATION

Dr. LaCoste, Dr. Quall, Dr. Johnson, Mrs. Tiffany, Mr. Wurster, Dr. Beach, Dr. Schlauch, Dr. Cunningham, Dr. MacDonald

The ideal of a good program of teacher preparation is to develop each prospective teacher's personality, knowledge, and skill to the point of maximum teaching efficiency. Whitworth believes this ideal is most likely to be attained through providing students with a thorough understanding of their teaching subjects, through developing poise in teaching procedures, and by imbuing students with a happy optimism for future prospects.

The Education Department introduces the student to the high level of cultural and aesthetic living essential for teachers of American youth. It enables teaching candidates to understand the subject matter in two or more broad fields commonly taught in elementary and secondary schools. Attention is given to the development of effective skill in education procedures and to the professional integrity needed for strict adherence to these procedures in classroom situations. Evaluation is also made of the individual's personal characteristics and attitudes as they pertain to a successful teaching career.

The State Certification Requirements for Washington may be found under Teaching p. 24.

MAJOR AND MINOR REQUIREMENTS

It is assumed that students desiring to teach will major in the subject content of their teaching field and minor in education. Majors in education are accepted when the student's subject content department requires in excess of 30 hours for a major, and when approved by the Chairman of the Department of Education. A major in education consists of 30 hours. A minor consists of 17 hours including the following: Education 210, 337, 338, and 8 semester hours of professional courses.

EDUCATION COURSES

210 DEVELOPMENTAL PSYCHOLOGY

3 hours each semester

The growth and development of the child from birth through adolescence, including the learning process. Designed to give an understanding of the child in life situations.

222 CHILDREN'S LITERATURE

2 hours second semester

Study of the scope of elementary school literature and materials and methods relative to meeting growth needs of children through literary adaptation.

231 ELEMENTARY CLASSROOM MUSIC 2 hours

For course description, see Music Department.

331 USING AUDIO VISUAL AIDS

2 hours first semester

The theory and practice of using effectively modern audio-visual aids and materials for teaching. Adult education will be considered.

333 MUSIC EDUCATION FOR THE ELEMENTARY SCHOOL

2 hours

For course description, see Music Department.

335, 336, 339 INSTRUMENT METHODS 2 hours

For course description, see Music Department.

337 CURRICULAR MATERIALS AND METHODS

3 hours each semester

One of the courses leading to the general certificate. Included are studies of the nature of learning, class management, unit development, evaluative techniques, and the scope of instructional materials and methods typically used in modern elementary schools. A minimum grade point average of 2.25 at time of registration is required.

338 CURRICULAR MATERIALS AND METHODS

3 hours each semester

One of the courses leading to the general certificate. Included are studies of general principles of education and the scope of instructional materials. Particular application is made to secondary schools. A minimum grade point average of 2.25 at time of registration is required.

340, 346 CHORAL AND INSTRUMENTAL TECHNIQUES

2 hours

For course description, see Music Department.

353 ART EDUCATION METHODS

2 hours

For course description, see Art Department.

365 METHODS IN TEACHING BUSINESS SUBJECTS

2 hours

For course description, see Secretarial Science Department.

371 ORIENTATION TO COLLEGE TEACHING**1 hour first semester**

A course intended for students considering college teaching as a career. It deals with these five topics: (1) The aptitude of the student; (2) Motivation for college teaching; (3) Orientation to college problems; (4) Orientation to graduate requirements and degrees; (5) Orientation to research.

411 EDUCATIONAL PSYCHOLOGY**2 hours first semester**

A psychological treatment of practical problems in education and a systematic exposition of psychological data basic to education. Throughout, the course is concerned with the practical, giving mature consideration to experimental investigations about the educative processes.

412 TESTS AND MEASUREMENTS**2 hours second semester**

Analysis of individual and group psychological tests and their application to progress of the pupil. Time will be given to problems in making of classroom tests in classroom subjects.

413 THEORY OF COUNSELING AND GUIDANCE**2 hours first semester**

A study of how to gather as much relevant information as possible about each pupil, how to organize it so that it shows his status at any given time and growth, and of how to use these data with understanding in the distribution and adjustment of individual pupils.

420 ELEMENTARY READING 2 hours each semester

A course designed to teach the processes of directing children of the elementary grades in the effective use of modern reading materials.

421 ARITHMETIC IN THE ELEMENTARY SCHOOL**2 hours first semester**

A course designed to teach the processes of directing children of the elementary grades in the effective use of the arithmetic and number system.

422 DRIVER TRAINING METHODS**2 hours each semester**

A course conducted with the cooperation and approval of the American Automobile Association and the National Safety Council for the purpose of certifying teachers of driver training.

423 SOCIAL STUDIES IN THE ELEMENTARY SCHOOL**2 hours first semester**

Study of curricular materials and methods in social studies for the elementary level.

424 GENERAL SCIENCE IN THE ELEMENTARY AND JUNIOR HIGH SCHOOL**2 hours second semester**

Adapting the needs of elementary and junior high school students to the field of general science. A presentation of modern methods and materials of science teaching.

425 TEACHING IN THE JUNIOR HIGH SCHOOL**2 hours fall semester**

An up-to-date presentation of junior high school education—its historical development, its basic philosophy and its practices. The course aims to provide a com-

prehensive treatment of the subject adapted to the needs of students intending to teach at the junior high school level.

426 LANGUAGE ARTS IN THE ELEMENTARY SCHOOL**2 hours second semester**

Emphasis upon the teaching of the language arts, speech, oral and written expression, creative and dramatic work, handwriting and spelling, to meet the needs of the elementary school child.

431 ORGANIZATION OF CLASS MATERIALS IN THE ELEMENTARY GRADES**2 hours first semester**

A course adapted to the needs of class members; group specialization at various levels.

432 STUDIES IN ELEMENTARY SCHOOL PROBLEMS**2 hours second semester**

A broad, general study of problems in elementary education. Teachers and students choose problems which are typical in a classroom and work them out in a seminar.

434 STUDENT ACTIVITY PROGRAMS**2 hours spring semester**

An analysis of secondary school activity programs with regard to purposes, types of programs, planning of activities and the function and evaluation of such programs.

441 PHILOSOPHY OF EDUCATION**2 hours first semester**

A philosophical treatment of the function of schools in our time. The course attempts to bring into focus the objectives and goals towards which our educational system is moving. It has significance, not only for the teacher, but for all those who are concerned with our educational destinies.

442 COMPARATIVE EDUCATION**2 hours spring semester**

A comparative study of the common educational programs available to youth in the principal countries of Western Europe, the United States, and the Soviet Union. Attention is centered on the forces that determine the character of education in each nation.

452 EDUCATIONAL SOCIOLOGY**2 hours second semester**

The function of education in society, the nature and function of the school, the curriculum, the social objectives of education, democracy and education, vocational guidance, other social agencies besides the school, social control and education.

460 STATE MANUAL**1 hour each semester**

A study of Washington State School Law, supplemented by lectures and discussion on the general field of education in the state of Washington.

480 INDIVIDUAL RESEARCH 1 hour each semester

The course taken during the semester in which a student practice teaches. Extensive reading research is undertaken on some problem in education of special significance to the pupil.

481, 482 RESEARCH SEMINAR 1-3 hours as arranged

Students are provided with the opportunity to do special research according to their interests with the guidance of the Chairman of the Department.

483 SPEECH FOR THE CLASSROOM TEACHER**3 hours**

For course description, see Speech Department.

487 SPECIAL METHODS OF TEACHING ENGLISH IN SECONDARY SCHOOLS**2 hours**

For course description, see English Department.

490 DIRECTED TEACHING AND OBSERVATION**8 hours each semester**

Eight weeks of daily observation and teaching of classes in the public schools of the area. Supervision by the regular teachers to whom the cadet is assigned. A one-hour conference period weekly is required of the class, and individual conferences are required at the appointed times. Open to seniors and graduate students with approved teaching fields. Required for certification. Special fee for the proper remuneration of a master teacher in the public school system and school administrators. See section on financial information. A minimum grade point average of 2.25 at time of registration is required. Prerequisites: Education 210, 337, 338, Laboratory Experiences, and September Experience.

GRADUATE COURSES IN EDUCATION

Any graduate course not described below will carry a number above 500.

501 ADVANCED TECHNIQUES OF COUNSELING AND GUIDANCE**Three hours**

A graduate seminar course considering the psychometrics and indirect methods of counseling and readings as basic consideration for directing educational and vocational programs of school children. The student may elect either the elementary or secondary level upon which to do basic research.

502 ADVANCED PRINCIPLES OF EDUCATION**Three hours**

A course designed to acquaint the student with the broad principles governing American life and their relationship to the schools; teaching for democracy; relationship of education to American society; responsibilities of the teacher and administrator; human problems and the teacher. Adaptation of the schools to these basic problems. For teachers and administrators.

505 THEORY OF INTERVIEWING**Two hours**

A research course in the techniques, purpose and evaluations of the indirect method of the interviewing phase of counseling. Materials commonly used by counselors in guiding individuals toward academic, vocational and personality adjustment will be used to supplement the verbal phases of interviewing.

521 ORGANIZATION AND ADMINISTRATION OF SECONDARY SCHOOLS**Three hours**

This course is designed especially for the training of administrators in the secondary and junior high school fields. It deals with the general qualifications of the successful administrator; his relationships to the board of education, the faculty and student; the principal and the community; special problems in the organization and administration of high schools; schedule making; and pupil personnel activities.

522 ORGANIZATION AND ADMINISTRATION OF ELEMENTARY SCHOOLS**Three hours**

A comprehensive treatment of the problems associated with the organization and administration of the elementary schools. Curricular evaluation will constitute a portion of this study in keeping with the developmental approach to the psychology of personality of the school child.

523 CLASSROOM SUPERVISION**Three hours**

The improvement of instruction through supervision in the first twelve grades.

524 THE SCHOOL AND COMMUNITY RELATIONS**Three hours**

A course designed to help those who are interested in the total educational program of the community. Emphasis is placed on the development of a school-community program based on local needs.

531 ADVANCED EDUCATIONAL PSYCHOLOGY**Three hours**

A systematic survey of the field of educational psychology for information and principles of practical value to teachers and administrators in the total public school program. The development of personality through counseling and guidance will be discussed.

533 SPECIAL PROBLEMS IN THE DEVELOPMENT OF CURRICULAR MATERIALS**Three hours**

This course is conducted on the workshop basis. Students engage in the actual development of curriculum materials in the field of their choice.

536 STUDENT ACTIVITY PROGRAMS**Three hours**

An analysis of the whole area of activity programs with regard to purposes, types of programs, specific activities, and the function and evaluation of such programs.

538 CURRENT EDUCATIONAL THOUGHT

An examination of major issues confronting contemporary education in the United States and of critical thought bearing on those issues.

539 PRINCIPLES OF ADULT EDUCATION**Three hours**

Consideration is given to major social factors leading to the growth and development of adult education. A study is made of types, techniques of teaching, the training of teachers and leaders, and research which furnish the basis for developments in adult education.

552 PERSONALITY ADJUSTMENT THROUGH COUNSELING**Three hours summer**

A course designed to acquaint the student with an understanding of human dynamics and the use of the indirect system of counseling as applied to personality problems relative to personality growth. Given on demand.

560 PUBLIC SCHOOL FINANCE**Three hours**

The methods used in the past and present for financing the schools. Coordination and practices of the state, city, and local boards in providing funds; the annual budget and its control; the principle of prudence in the administration of funds; management of funds; statements and reports; salaries; cost analyses; auditing; and other means of control are studied. The methods, advantages, and administration of school bonds, and the philosophy of state and Federal support are given attention. For all administrators.

561 TESTS AND MEASUREMENTS**Two hours**

This study gives itself to analysis of individual and group psychological tests and their application to progress in the pupil. Time will be given to problems in making of classroom tests in classroom subjects.

575 TRENDS IN CURRICULUM BUILDING**Three hours summer**

A study of the problems in curriculum development and of promising practices in curriculum work. Given on demand.

580 SEMINAR IN HISTORY AND PHILOSOPHY OF EDUCATION**Three hours**

A seminar study in great movements in education considered in chronological order and with reference to evaluation of strengths and weaknesses. Individual and group projects.

581 STUDIES IN ELEMENTARY SCHOOL PROBLEMS**Two hours**

A broad, general study of problems in elementary education. Teachers and students choose problems which are typical in a classroom and work them out in a seminar.

586 READINGS IN EDUCATION Three hours
A graduate reading course in educational materials and basic studies in major areas of educational curricula.

590, 591 RESEARCH SEMINAR Two-four hours each semester
A supervised study into major problems in education. The student follows research methods similar to his individualized investigation. Subjects pertinent to either the elementary, junior high, or senior high school may be elected.

594, 595 THESIS Three hours each semester
Methodology of Research and Thesis writing.

GRADUATE WORK IN CHRISTIAN EDUCATION

The Master of Arts Degree in Education will be awarded to graduate students in the field of Christian Education who have completed areas of study and research as listed below. A close affinity is noted between the Master of Arts Degree as applied to the public school field and the Master of Arts Degree as applied to Christian Education in the church. Requests for changes in the program leading to the Master of Arts Degree must be made to the Graduate Council.

Methodology of Research
Advanced Educational Psychology
Curricular Problems
Advanced Techniques of Counseling
History and Philosophy of Christian Education
Supervision of Christian Education
Practicum (on Administrative level) and Seminar
Thesis
Electives (Approved by Department Head)

HEALTH, PHYSICAL EDUCATION AND RECREATION

*Mr. Cutter, Mr. Merkel, Mr. Adams, Mr. Knuckles,
Miss Cook, Miss Marks*

The physical education department, by means of activity courses, intramural sports, interscholastic athletics, and informal recreational opportunities seeks to provide the individual student with experiences which will contribute to his physical, social, mental and emotional development. Through theory and activity courses the department provides a program of preparation for careers in physical education, athletic coaching and recreational leadership.

MAJOR AND MINOR REQUIREMENTS

Major study requirements for the Department of Physical Education and Recreation are 30 hours for majors and 18 hours for minors, plus the 5 hours of physical education general graduation requirements.

Men majors are required to take 2 hours of activity, 135 A,B,C,D, 150, 170, 300, 310, 320, 371, 372, 373, 374, 380 and 8 hours of approved electives. Other requirements include: Biology 120, 121, and Psychology 235, 468. Home Economics 361 is recommended.

Men minors are required to take 2 hours of activity, 135 A,B,C,D, 150, 170, 310 and 8 hours of approved electives. Recommended courses include Biology 120, 121, and Psychology 235, 468.

Women majors are required to take 111 or its alternate, 118, 130 A,B,C,D,E,F, 150, 170, 300, 310, 320, 340, 345, or 346, 350, 351 and 6 hours of approved electives. Other requirements include Biology 120, 121, and Psychology 235, 468. Home Economics 361 is recommended.

Women minors are required to take 111 or its alternate, 118, 130, A,B,C,D,E,F, 150, 310, 350, 351, and 6 hours of approved electives. Recommended courses include Biology 120, 121, and Psychology 235, 468.

Aquatics is required for majors and minors lacking swimming proficiency.

RECREATIONAL LEADERSHIP

Requirements for a minor are courses 200, 315 and 355, plus 7 hours of approved electives and 4 hours of physical education activity in addition to the 4 hour activity requirement for graduation.

PHYSICAL EDUCATION

ACTIVITY COURSES

- 101 VARSITY BASEBALL (MEN) 1 hour second semester
- 102 VARSITY BASKETBALL (MEN AND WOMEN) 1 hour each semester
- 103 VARSITY FOOTBALL (MEN) 1 hour first semester
- 104 VARSITY GOLF (MEN) 1 hour second semester
- 105 VARSITY TENNIS (MEN AND WOMEN) 1 hour second semester
- 106 VARSITY TRACK & FIELD (MEN) 1 hour second semester
- 111 AQUATICS (BEGINNERS-LIFE SAVING) (MEN AND WOMEN) 1 hour each semester
- 112 ARCHERY AND GOLF (MEN AND WOMEN—COED) 1 hour each semester
- 113 BASKETBALL AND SOFTBALL (WOMEN) 1 hour second semester
- 114 BODY MECHANICS (WOMEN) 1 hour each semester
Fundamental skills used in everyday living, including posture, movement and relaxation techniques.
- 115 BOWLING (COED) Special Fee 1 hour each semester
- 116 CREATIVE RHYTHMS (WOMEN) 1 hour first semester
A study of techniques of rhythmic movement in time, space, focus, range and pattern. Development of personal ability to create through bodily movement.
- 117 FIELD SPORTS AND VOLLEYBALL (WOMEN) 1 hour first semester
- 118 FOLK GAMES (COED) 1 hour first semester
- 119 RECREATIONAL SPORTS (MEN AND WOMEN) 1 hour second semester
Aerial Darts, Croquet, Desk Tennis, Horseshoes, Paddle Tennis, Shuffleboard, Table Tennis and other recreational games.
- 120 SKIING (COED) Special Fee 1 hour each semester

- 121 **TEAM SPORTS (MEN)** 1 hour each semester
Touch Football, Basketball (Fall).
Volleyball, Softball (Spring).
- 122 **TENNIS AND BADMINTON (MEN AND WOMEN)** 1 hour each semester
- 123 **TUMBLING AND APPARATUS (MEN AND WOMEN)** 1 hour each semester
- 124 **WEIGHT LIFTING (MEN)** 1 hour each semester
- 130 **A,B,C,D,E,F—SKILL FUNDAMENTALS (WOMEN—MAJORS AND MINORS)** 1 hour each semester
Basic and advanced skills of physical education and rhythmic activities.
- 135 **A,B,C,D—GAMES AND MINOR SPORTS (MEN—MAJORS AND MINORS)** (1) Fall, Spring
Basic skills, knowledges and strategies of games and sports used in school physical education programs.

THEORY COURSES

- 150 **INTRODUCTION TO PHYSICAL EDUCATION** 1 hour first semester
Professional orientation to physical education including basic philosophy, objectives, professional opportunities and qualifications.
- 160 **PERSONAL HEALTH** 1 hour each semester
A survey course covering problems of personal and community health.
- 170 **FIRST AID** 2 hours second semester
Study of first-aid and safety procedures. Standard and advanced American Red Cross certificates are awarded to those who qualify.
- 240 **SPORTS OFFICIATING FOR WOMEN** 2 hours each semester
Rules, techniques and practice in officiating various sports for girls and women. One lecture and two laboratories.
- 300 **HISTORY AND PRINCIPLES OF PHYSICAL EDUCATION** 3 hours first semester
A historical survey of physical education from ancient to modern times with emphasis on the basic principles of modern physical education and their relationship to present day programs.
- 310 **ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION** 3 hours second semester
Administrative policies concerned with program, facilities, equipment and public relations in physical education.
- 320 **KINESIOLOGY** 3 hours first semester
Analysis of joint and muscular action in relation to movement; application of the basic principles of mechanics to efficiency of performance in physical education activities. Prerequisite: Biology 120.
- 325 **PHYSIOLOGY OF EXERCISE** 2 hours first semester
Physiological effects of muscular exercise on the body. Training and its relation to endurance, strength and athletic performance. Prerequisite: Biology 121. (Offered 1960-61 and alternate years.)
- 330 **ADAPTED PHYSICAL EDUCATION** 3 hours second semester
Methods used in programs of adapted physical education including physical activities suitable for such programs. Prerequisite: Biology 120. (Offered 1960-61 and alternate years.)
- 341 **SPORTS OFFICIATING FOR MEN** 2 hours
One lecture and two laboratories. Rules, techniques and practical experience in sports officiating.
- 345 **METHODS OF TEACHING ELEMENTARY PHYSICAL EDUCATION** 2 hours second semester
Methods and materials for teaching group games, relays, stunts, and lead-up games for elementary schools with experience in presenting these activities.
- 346 **METHODS OF TEACHING SECONDARY PHYSICAL EDUCATION** 2 hours first semester
Study of methods and materials used in conducting physical education programs in secondary schools.
- 350 **METHODS OF TEACHING TEAM SPORTS FOR WOMEN** 2 hours first semester
A study of the methods and materials used in teaching basketball, hockey, soccer, softball, speedball, and volleyball in the secondary schools.
- 351 **METHODS OF TEACHING INDIVIDUAL AND DUAL SPORTS FOR WOMEN** 2 hours second semester
A study of the methods and materials used in teaching individual and dual sports.
- 360 **METHODS IN HEALTH EDUCATION** 2 hours second semester
Methods and materials used in conducting an integrated program of health in the public schools. (Offered 1959-60 and alternate years.)
- 371 **THEORY AND PRACTICE OF BASEBALL (MEN)** 2 hours second semester
Fundamentals of baseball, theory and practice. (Offered 1959-60 and alternate years.)
- 372 **THEORY AND PRACTICE OF BASKETBALL (MEN)** 2 hours first semester
Fundamentals of basketball, theory and practice. (Offered 1959-60 and alternate years.)
- 373 **THEORY AND PRACTICE OF FOOTBALL (MEN)** 2 hours first semester
Fundamentals of football, theory and practice. (Offered 1960-61 and alternate years.)
- 374 **THEORY AND PRACTICE OF TRACK (MEN)** 2 hours second semester
Fundamentals of track, field, theory and practice. (Offered 1960-61 and alternate years.)



380 ATHLETIC TRAINING (MEN)

2 hours first semester

A study of the types and causes of injuries incurred while participating in athletic sports; prevention and care.

400 TESTS AND MEASUREMENTS

3 hours second semester

Application of measurement to physical education: selection, administration and interpretation of knowledge and performance tests. (Offered 1960-61 and alternate years.)

410 ORGANIZATION AND ADMINISTRATION OF INTERSCHOLASTIC SPORTS (MEN)

2 hours second semester

Policies and procedures used in conducting interscholastic athletics with emphasis on secondary school programs. (Offered 1960-61 and alternate years.)

415 ORGANIZATION AND ADMINISTRATION OF INTRAMURAL SPORTS (MEN)

2 hours

Policies and procedures used in conducting intramural programs in schools and colleges.

490, 491 SEMINAR

2 hours each semester

Introduction to research techniques in physical education: individual investigation by the student. Open to seniors or honor students only.

RECREATION COURSES**200 INTRODUCTION TO RECREATION**

2 hours first semester

Introduction to the theory of play and recreation and to the professional opportunities in the fields of private, semi-private and public recreation. (Offered 1959-60 and alternate years.)

210 SOCIAL RECREATION 2 hours second semester

Methods in conducting activities suitable for social groups in playground, community center and church recreation programs. (Offered 1960-61 and alternate years.)

315 COMMUNITY RECREATION

2 hours first semester

A survey of the recreation programs of private, semi-private and public agencies within the community. (Offered 1960-61 and alternate years.)

355 RECREATION LEADERSHIP

3 hours second semester

Methods and practice in selecting and conducting programs of recreation for all age groups in church, school and community settings. (Offered 1960-61 and alternate years.)

356 CAMP LEADERSHIP

3 hours second semester

Practical and theoretical aspects of leadership in a camp situation with relation to counseling and directing of camp programs. (Offered 1959-60 and alternate years.)

418 ORGANIZATION AND ADMINISTRATION OF RECREATION

3 hours second semester

Organization and administration of public and private programs of recreation; finance, activities, personnel, records and reports. (Offered 1959-60 and alternate years.)

425 RECREATION FIELD WORK

1-3 hours each semester

Supervised fieldwork in camps, churches, playgrounds, recreation centers and other social agencies.



College Personnel

THE BOARD OF TRUSTEES

The Trustees constitute the governing board of the College. The Board is authorized by its charter to hold all properties and to exercise all corporate controls concerning affairs of the college. It has the authority to determine policies and delegate the execution of such policies to the administration and faculty.

Officers of the Board

William L. McEachran, LL.D., Chairman.....Spokane
G. Christie Swain, D.D., Vice Chairman.....Spokane
Werner Rosenquist, Secretary.....Spokane
Ernest E. Baldwin, Treasurer.....Spokane
Clarence E. Polhemus, Ex-officio Member.....Spokane

Emeritus Members

Charles F. Kochler, D.D.....Spokane
Otto R. Rabel.....Seattle

Class of 1959

Carl L. Boppell.....Santa Cruz, California
Raymond W. Burch.....Coeur d'Alene, Idaho
Alfred Carlson.....Spokane
F. L. Graybill.....Spokane
Herbert Hamblen.....Spokane
David L. Jones.....Seattle
Mark L. Kochler, D.D.....Yakima
Miss Mildred Lemon.....Olympia
Lawrance J. Mitchell, D.D.....Pullman
G. Christie Swain, D.D.....Spokane
Arthur E. Symons.....Seattle
C. Davis Weyerhaeuser.....Tacoma

Class of 1960

Mrs. Robert Hardy.....Yakima
Carroll M. Hull.....Yakima
William L. McEachran, LL.D.....Spokane
Donald Majer.....Spokane
Haydn Morgan.....Spokane
Sheldon O. Price, D.D.....Wenatchee
William Richter, M.D.....Spokane
Werner Rosenquist.....Spokane
Thomas L. Thompson.....Connell
Ingwer Thomsen.....Marlin
Ralph G. Turnbull, D.D.....Seattle

Class of 1961

Albert K. Arend.....Spokane
Ernest E. Baldwin.....Spokane
L. David Cowie, D.D.....Seattle
Mrs. Grant Dixon.....Spokane
Wyn Gilbert.....Vancouver
Roy Howes.....Spokane
Keith Murray, Ph.D.....Bellingham
Kenneth G. Myers.....Seattle
Fred W. Neale.....Seattle
Sam A. Postell.....Spokane

OFFICES OF ADMINISTRATION

The Office of the President

President.....Dr. Frank F. Warren
Secretary to the President.....Miss Ann Swyter

The Office of the Vice President in Development

Vice President in Development.....Dr. James Forrester
Assistant to the Vice President.....Mr. Paul Wikstrom
Field Representative.....Mr. John G. Gunn

The Office of the Dean of the College

Dean of the College.....Dr. Alvin B. Quall
Assistant to the Dean.....Miss Ann Harold

The Office of the Dean of Women

Dean of Women.....Miss Marion R. Jenkins
Secretary to Deans of Students.....Mrs. Frank Koth

The Office of the Dean of Men

Dean of Men.....Dr. R. Fenton Duvall

The Office of the Registrar

Registrar.....Miss Estella Baldwin
Assistant Registrar.....Mrs. Thomas F. Hutson
Secretary to the Registrar.....Miss Lucretia Beavers
Transcript Clerk.....Mrs. Robert A. Sprague

The Business Office

Business Manager.....Mr. J. Paul Snyder
Bursar.....Mr. Dayne Nix
Secretary to the Business Manager.....Mrs. Don Johnson
Bookkeeper.....Miss Wilma-Ruth Fleming
Clerk.....Mrs. Ruth Ferguson

The Office of Admissions

Director of Admissions.....Mr. Helmuth Bekowies
Secretary.....Mrs. Kenneth H. Spoerhase

The Office of Informational and Program Services

Director.....Mr. Ed Neltner
Secretary.....Mrs. Ed Neltner

Library

Head Librarian.....Miss Flaval Pearson
Catalog Librarian.....Mrs. Claude R. French
Acquisitions Librarian.....Mrs. Ina Henefer

The Alumni Office

Executive Secretary.....Mr. Roy Dimond

Food Services

Dining Hall Dietician.....Mrs. Jeanne Green
Dining Room Hostess.....Mrs. Ruth Quigley
Director of HUB Commons.....Mrs. Thomas Vaughn

The Book Store

Manager.....Mrs. Leonard B. Martin
Assistant to the Manager.....Mrs. Margaret Walline

Health Service

Director.....Mrs. Margaret W. Robertson
Head Nurse.....Mrs. Edward C. Lageson
College Physician.....Dr. James Sledge

THE FACULTY

The Faculty consists of certain officers of administration and all officers of instruction. Teachers are classified as follows: professors, associate professors, assistant professors, and instructors. The faculty are charged with the responsibility for the academic program, the extra-class activities sponsored by the College, and the welfare of its students.

FRANK FURNISS WARREN, M.A., D.D., LL.D., Litt.D.
President

B.A., Seattle Pacific College; M.A., Drew University; D.D., Seattle Pacific College; LL.D., Whitworth College; Litt.D., Pacific Lutheran College.
Whitworth College, 1940

GEORGE W. ACOCK, M.S.
Assistant Professor of Engineering

B.S., Virginia Polytechnic Institute; M.S., Massachusetts Institute of Technology.
Whitworth College, 1958—

SAMUEL H. ADAMS, M.Ed.
Assistant Professor of Physical Education; Head Coach, Football and Track

B.S., M.Ed., Whitworth College.
Whitworth College, 1957—

HOMER E. ALDER, Ph.D.
Professor of Biology

B.S., Fremont Normal College; B.A., Nebraska Wesleyan University; M.A. and Ph.D., University of Nebraska.
Whitworth College, 1946—

ESTELLA E. BALDWIN, M.A.
Professor of Bible, Registrar

B.A., M.A., Whitworth College; Bible Institute of Los Angeles; Graduate study, New York Biblical Seminary, and University of Boston.
Whitworth College, 1931—

LESLIE R. BEACH, Ph.D.
Associate Professor of Psychology

B.A., Houghton College; M.Ed., Wayne University; Ph.D., University of Michigan.
Whitworth College, 1957—

HELMUTH BEKOWIES, B.A.
Director of Admissions

B.A., Whitworth College.
Whitworth College, 1948—

THOMAS W. BIBB, Ph.D.
Professor of Economics and Business Administration

B.A., William Jewell College; M.A., Ph.D., University of Washington.
Whitworth College, 1946—

ROBERT D. BOCKSCH, Ph.D.
Assistant Professor of Chemistry

B.S., Wayne University; Ph.D., University of Wisconsin.
Whitworth College, 1958—

MARY BOPPELL, M.A.
Associate Professor of Home Economics

B.S., M.A., University of Washington.
Whitworth College, 1941—

JAMES R. BRATHOVDE, Ph.D.
Associate Professor of Chemistry

B.A., Eastern Washington College of Education, Ph.D., University of Washington.
Whitworth College, 1956—

JAMES C. CARLSEN, M.A.
Assistant Professor of Music

B.A., Whitworth College, M.A., University of Washington.
Whitworth College, 1954—

JOHN ARVID CARLSON, M.S.
Professor of Mathematics and Engineering

B.S., M.S., University of Washington; Graduate study, University of Washington.
Whitworth College, 1935—

ANNA JANE CARREL, M.M., A.A.G.O.
Professor of Music

Mus.B., Oberlin Conservatory of Music; Mus.M., Cincinnati Conservatory of Music; student of Ernest Hutcheson and Sigismund Stajowski in New York City; B.A., Whitworth College, Graduate study towards Ph.D., Yale University, and Graduate study at Eastman School of Music.
Whitworth College, 1937—

NORMA LEE COOK, M.A.
Assistant Professor of Physical Education

B.A., Eastern Washington College of Education; M.R.E., The Biblical Seminary in New York; M.A., Los Angeles State College.
Whitworth College, 1958—

DOROTHY F. CORONA, R.N., M.N.
Director of Nursing Services and School of Nursing

B.S., Whitworth College; M.N., Western Reserve University.
Whitworth College and Deaconess Hospital, 1954—

HOMER F. CUNNINGHAM, Ph.D.
Professor of History

B.A., Greenville College; M.A., University of Michigan; Ph.D., New York University.
Whitworth College, 1955—

A. ROSS CUTTER, M.A.
Assistant Professor of Physical Education

B.A., University of California; M.A., College of the Pacific; Candidate for Ed.D., University of California.
Whitworth College, 1958—

DAVID E. DILWORTH, Th.D.
Associate Professor of Religion

B.A., University of California at Los Angeles; B.D., Princeton Theological Seminary; Th.D., San Francisco Theological Seminary.
Whitworth College, 1955—

FRANCINE DONNER, A.M.
Assistant Professor of English

A.B., University of Washington; A.M., University of Southern California.
Whitworth College, 1958—

R. FENTON DUVALL, M.A., Litt.D.
Associate Professor of History, Dean of Men

B.S. in Ed., Temple University; M.A., University of Pennsylvania; Litt.D., King's College, Delaware; Candidate for Ph.D., University of Pennsylvania.
Whitworth College, 1949—

ELLA ERWAY, M.A.
Assistant Professor of Speech

B.A., Wheaton College; M.A., Columbia University.
Whitworth College, 1958—

ERNESTINE EVANS, M.A.
Associate Professor of Secretarial Science

B.A., M.A., Washington State College; Graduate study, Columbia University, New York Biblical Seminary.
Whitworth College, 1941—

JACQUELINE FICK, M.S.

Assistant Professor of Biology

A.B., Holy Names College; M.S. Marquette University.
Whitworth College, 1958—**MARY FLOWERS, R.N., M.N.**

Assistant to the Director of the School of Nursing

B.S., B.A., Whitworth College; M.N. University of Washington.

Whitworth College and Deaconess Hospital, 1952—

JAMES FORRESTER, Ph.D.

Vice-President in Development

B.A., Queen's University; M.A., Ph.D., University of Southern California; D.D., Sterling College; LL.D., Whitworth College.

Whitworth College, 1939-42, 1958—

RHEA J. FRENCH, B.A.

Catalog Librarian

B.A., Montana State University.

Whitworth College, 1943—

ALFRED ORREN GRAY, M.A.

Professor of Advertising and Journalism

B.A., M.A., University of Wisconsin; Graduate study, University of Wisconsin.

Whitworth College, 1946—

NICOLIN P. GRAY, M.S.

Assistant Professor of Chemistry

B.S., M.S., University of Washington; Graduate study, University of Washington.

Whitworth College, 1944-1949, 1956—

ANN HAROLD, B.A.

Assistant to the Dean

B.A., Whitworth College.

Whitworth College, 1953—

INA LEORA HENEFER, B.A.

Acquisitions Librarian

B.A., Whitworth College; Graduate study, University of Washington.

Whitworth College, 1954—

EUGENE A. HENNING, Ph.D.

Professor of French and Spanish

B.S., M.A., University of Missouri; Ph.D., University of New Mexico. Additional language studies at Columbia University, University of Puerto Rico, National University of Mexico, University of Colorado, and Sorbonne, Paris.

Whitworth College, 1951—

RUBY ARLETTA HERITAGE, B.S.

Assistant Professor of Music

B.S., Columbia University; Graduate Fellowship Juilliard Graduate School, American Conservatoire of Music, Fontainebleau, France; Special coaching with William Wade Hinshaw, Frank LaForge, Richard deYoung; Advanced study toward Masters, Chicago Musical College.

Whitworth College, 1946—

FRANK EDWARD HOUSER, A.M.

Assistant Professor of Sociology

A.B., Houghton College; A.M., candidate for Ph.D., Columbia University.

DIXIE RAE HUTSON, B.A.

Assistant Registrar

B.A. Whitworth College.

Whitworth College, 1952—

MARION R. JENKINS, M.A.

Professor of Bible and Christian Education, Dean of Women

B.A., Whitworth College; M.A., New York University; Graduate of San Jose Teacher's College, California; Graduate study at University of California and New York Biblical Seminary.

Whitworth College, 1931—

LOUISE Y. JENNINGS, M.A.

Assistant Professor of English

B.A., M.A., Kansas University.

Whitworth College, 1958—

JASPER H. JOHNSON, Ed.D.

Associate Professor of Education

B.A., M.Ed., Ed.D., University of Washington.

Whitworth College, 1953—

MILTON JOHNSON, M.A.

Associate Professor of Music

B.S., University of Minnesota; M.A., University of Iowa; Ph.D. Candidate, University of Southern California. Special study with Julius Herford, Roger Wagner, John Finley Williamson, and Frank Miller.

Whitworth College, 1957—

HUGH W. JOHNSTON, Ph.D.

Associate Professor of Chemistry

B.S., Montana State College; M.S., University of Illinois;

Ph.D. Indiana University.

Whitworth College, 1957—

WILLIAM G. KNUCKLES, A.M.

Assistant Professor of Physical Education; Head Basketball Coach, Assistant in Football and Track

A.B., University of Denver; A.M., Colorado State College.

Whitworth College, 1957—

JOHN G. KOEHLER, M.A.

Associate Professor of Art

B.A., M.A., University of Washington; Graduate study, University of Oregon.

Whitworth College, 1945—

JOHN A. LACOSTE, Ed.D.

Associate Professor of Education

B.A., Coe College; M.A., University of Iowa, Ed.D., University of Washington.

Whitworth College, 1954—

J. RUSSELL LARSON, M.Ed.

Associate Professor of Art

B.A., B.S., University of Washington; B.Ed., M.Ed., Whitworth College; Graduate study, Instituto Allende, Gto, Mexico.

Whitworth College, 1947—

MARK W. LEE, M.A.

Associate Professor of Speech and Drama

B.A., M.A., Wheaton College.

Whitworth College, 1957—

PATRICIA A. MACDONALD, Ph.D.

Associate Professor of Psychology

B.A., University of Washington; M.A., Ph.D., University of Rochester.

Whitworth College, 1955—

DIANA C. MARKS, B.A.

Instructor in Physical Education

B.A., Wheaton College.

Whitworth College, 1956—

FLAVAL PEARSON, B.A.

Head Librarian

B.A., B.A. Librarianship, University of Washington.
Whitworth College, 1958—**ALICE QUALL, M.Ed.**

Instructor in Secretarial Science

B.A., Seattle Pacific College; M.Ed. Whitworth College.
Whitworth College, 1953—**ALVIN QUALL, Ed.D.**

Dean of the College, Professor of Education and Psychology

B.A., Seattle Pacific College; M.A., University of Washington; Ed.D., Washington University.
Whitworth College, 1953—**HOWARD A. REDMOND, Ph.D.**

Associate Professor of Religion and Philosophy

B.A., University of California at Los Angeles; B.D., Princeton Theological Seminary; M.A., Ph.D., University of Southern California.
Whitworth College, 1957—**MARGARET W. ROBERTSON, R.N., M.A., M.P.H.**

Associate Professor of Nursing

B.A., Occidental College; M.A., Columbia University; M.P.H., University of Minnesota.
Whitworth College, 1958—**GUSTAV HERMAN SCHLAUCH, Ph.D.**

Professor of Sociology

B.A. Spokane University; M.A., Ph.D., University of Washington; Washington State College.
Whitworth College, 1942—**CLARENCE J. SIMPSON, Ph.D.**

Professor of English

A.B., Asbury College; M.A., University of Cincinnati; Ph.D., Stanford University.
Whitworth College, 1953—**EVELYN A. SMITH, M.R.E.**

Associate Professor of Bible and Christian Education

B.A., University of California; M.R.E., The Biblical Seminary in New York; Graduate work, University of California, Whitworth College.
Whitworth College, 1944-45, 1948—**J. PAUL SNYDER, M.A.**

Business Manager

B.A., College of Puget Sound; M.A., University of Washington.
Whitworth College, 1951—**ROBERT A. SPRAGUE, M.C.S.**

Associate Professor of Advertising

B.C.S., New York University; M.C.S., New York University.
Whitworth College, 1956—**PAUL J. MERKEL, M.Ed.**

Assistant Professor of Physical Education; Director of Athletics; Head Baseball Coach; Assistant Coach, Football, Basketball.

B.A., B.Ed., M.Ed., Whitworth College.
Whitworth College, 1954—**LEONARD B. MARTIN, M.Mus.**

Associate Professor of Music

Westminster Choir College; B.Mus., M.Mus., University of Southern California; Pupil of Arthur Alexander.
Whitworth College, 1949—**LULU M. SWOPE, R.N., M.N.**

Assistant to the Director of the School of Nursing

B.S., Whitworth College; M.N., University of Washington.
Whitworth College and Deaconess Hospital, 1957—**ESTELLA N. TIFFANY, M.A.**

Associate Professor of Education

B.A. in Education, Eastern Washington College of Education; M.A., University of Washington.
Whitworth College, 1949—**LOYD BENSON WALTZ, M.A.**

Professor of Speech and Dramatics

B.A., Willamette University; M.A., University of Southern California.
Whitworth College, 1944—**MAE WHITTEN, M.A.**

Associate Professor of English

B.A., Stanford University; M.A., Whitworth College; Graduate study at Stanford University, University of California, and University of Oregon.
Whitworth College, 1945—**WILLIAM G. WILSON, M.S.**

Associate Professor of Physics and Engineering

B.S., M.S., University of Washington; Graduate study, University of California, University of Washington, Eastern Washington College of Education; work towards Ph.D., Washington State College.
Whitworth College, 1946—**ROLAND B. WURSTER, M.A.**

Associate Professor of English

B.S., Oregon State College; M.Ed., University of Oregon; M.A., George Peabody College for Teachers.
Whitworth College, 1957—**LAWRENCE E. YATES, M.A.**

Associate Professor of Greek and Philosophy

B.A., McGill University; M.A., University of Toronto; B.D., Presbyterian College, Montreal, Canada. Graduate study, University of Saskatchewan. Residence work complete towards Th.D., Princeton Theological Seminary.
Whitworth College, 1948—

Physical Plant

The main buildings of the campus consist of: Cowles Memorial Auditorium, Dixon Hall, McEachran Hall, Hardwick Student Union Building, Harriet Cheney Cowles Memorial Library, Science Hall, Music Building, Grieve Hall, Graves Gymnasium, Home Economics Building, Dining Hall, the Edinger Memorial Chapel, Arend Hall, Westminster Hall, Washington Hall, Nason Hall, Ballard Hall, McMillan Hall, Maranatha Hall, Warren Hall, and the Central Heating Plant.

McEACHRAN HALL was built in 1953. The first floor houses the administrative offices. The second floor houses certain educational facilities including classrooms, faculty offices, and a duplicating department.

DIXON HALL was completed in 1956. It was named after Grant Dixon, a former Board member and benefactor of the College. This building contains 18 classrooms which are used by the various divisions of the College and also includes individual offices for nine faculty members. The building is of brick and completely fireproof.

THE COWLES MEMORIAL AUDITORIUM, which was completed in 1956, was a gift from the Cowles family. It is a brick structure of modern design. It contains an auditorium which seats 1250 persons and has a large stage for the presentation of music and dramatic productions. This building houses a little theater area under the stage, speech classrooms, a public relations office, speech offices, development offices, and a faculty lounge.

THE HARDWICK MEMORIAL STUDENT UNION BUILDING was completed in 1957. This building contains a snack bar and rooms situated adjacent to it that can accommodate gatherings up to 75 in number. It also provides a large room for social events, game room, lounge with TV and record player, book store, post office, five guest rooms, and offices for student publications and the Associated Students.

THE HARRIET CHENEY COWLES MEMORIAL LIBRARY, completed in 1948, was a gift from the Cowles family. It is a beautiful brick structure with study quarters which accommodate the needs of the entire student body and the housing of 100,000 books. The lower floor houses the Art, Journalism, and Advertising Departments. Other rooms for classroom use and study carrels complete the facilities.

HOUSING: Seven dormitory buildings provide housing for the students. Ballard, McMillan, Warren, and Maranatha Halls provide housing for 394 women. Westminster, Nason, and Arend Halls provide housing for 287 men. On the east side of the campus married students and faculty members occupy twenty-two apartments known as College Homes. Other living quarters for faculty members and families are also provided.

GRAVES GYMNASIUM is the center of the athletic program of the campus. Adjacent to this building is a natural amphitheater which with its view of nearby hills provides a turfed athletic field of unique beauty. This field also contains a quarter mile track. Stannard Field is used for baseball and other field sports. The athletic facilities also include five cement and asphalt tennis courts.

THE MUSIC BUILDING consists of two levels. The first floor has two large classrooms and a number of practice rooms. The second floor contains the recital room, a central music office, and studios for the individual members of the department.

THE HOME ECONOMICS BUILDING contains a large foods laboratory and storage room. A modern, all electric kitchen is located on the first floor. In addition, the Home Management Cottage makes it possible for students to gain practical experience.

THE SCIENCE HALL houses the departments of biology, chemistry and physics. It is a brick structure with two floors, making space for a lecture room, laboratories, store rooms, and offices for these science departments.

THE DINING HALL is a solid brick structure. It will accommodate 500 students at one time through the use of its upper and lower dining rooms. Meals are served family style evenings and cafeteria style mornings and at noon.

GRIEVE HALL houses the Health Center. It contains the nursing office, the dispensary, and both single rooms and wards for the care of students during illness. A home economics classroom is also in this building.

THE EDINGER MEMORIAL CHAPEL was erected by the Philadelphians. It accommodates forty students and is used for small religious group meetings and for private devotions.

SUMMARY OF ENROLLMENT

FIRST AND SECOND SEMESTERS, 1956-1957

	MEN	WOMEN	TOTAL
Seniors	83	70	153
Juniors	115	86	201
Sophomores	133	96	229
Freshmen	164	206	370
Graduate, Post-graduate and Special Students	174	231	405
	<u>669</u>	<u>689</u>	<u>1358</u>

GEOGRAPHICAL DISTRIBUTION
OF ENROLLMENT*Registration by States and U. S. Territories*

FIRST AND SECOND SEMESTERS, 1956-1957

Arizona	4	New York	2
California	87	North Carolina	1
Colorado	13	Ohio	2
Connecticut	1	Oklahoma	3
Idaho	38	Oregon	46
Illinois	2	Pennsylvania	7
Iowa	1	Tennessee	1
Kansas	1	Texas	1
Maryland	3	Utah	2
Michigan	1	Virginia	1
Minnesota	2	Washington	1072
Missouri	2	Wisconsin	1
Montana	29	Wyoming	1
Nebraska	2	Alaska	11
New Jersey	2	Hawaii	2

Foreign Countries

Canada	3	Korea	5
Guatemala	1	Panama	1
Indonesia	1	Thailand	2
Israel	1		
Japan	3		<u>1358</u>



WESTMINSTER HALL

SUMMARY OF ENROLLMENT

FIRST AND SECOND SEMESTERS, 1957-1958

	MEN	WOMEN	TOTAL
Seniors	79	76	155
Juniors	93	69	162
Sophomores	111	107	218
Freshmen	132	199	331
Graduate, Post-graduate and Special Students	232	292	524
	<u>647</u>	<u>743</u>	<u>1390</u>

GEOGRAPHICAL DISTRIBUTION
OF ENROLLMENT*Registration by States and U. S. Territories*

FIRST AND SECOND SEMESTERS, 1957-1958

Arizona	2	Nebraska	1
Arkansas	1	New Jersey	4
California	103	New York	3
Colorado	13	Ohio	1
Connecticut	1	Oklahoma	1
Delaware	1	Oregon	42
Florida	1	Pennsylvania	5
Idaho	35	Texas	1
Illinois	3	Utah	2
Iowa	1	Washington	1105
Kansas	1	Wisconsin	4
Maryland	3	Maine	3
Michigan	1	Alaska	9
Minnesota	3	Hawaii	2
Montana	18	Canal Zone	1
Missouri	2		

Foreign Countries

Brazil	1	Lebanon	1
Canada	3	Indonesia	1
China (Hong Kong) ..	1	Panama	2
Israel	1	Thailand	2
Japan	2		
Korea	3		<u>1390</u>



GRAVES GYMNASIUM

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THE **CATALOGUE** EDITION
OF THE **WHITWORTH COLLEGE**
BULLETIN

SPOKANE, WASHINGTON